

The Science Teaching Survey 2025 Dataset

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The data included in the following appendices represent state funded secondary schools only. Our definition of state funded secondary schools includes local authority, community, foundation or ETB; academy (standalone); academy (in a multi-academy trust); grammar school/state selective school (any type of state school with selective admissions).

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Introduction

The Science Teaching Survey 2025

Our findings reveal that greater support is needed for our science educators

With 1,931 responses, The Science Teaching Survey 2025 reveals that notable challenges in science education remain. A key theme from the data is how technicians and support staff are crucial in aiding teachers and their students. The results also highlight the strong need for an empowered, sufficiently staffed and expert workforce to give young people access to a world-class science education.

For the past four years, science teachers and technicians have been sharing their experiences in The Science Teaching Survey, which is led by the Royal Society of Chemistry. This year's survey was supported by CLEAPPS and our partners in the Science Education Policy Alliance (SEPA), which includes the Association for Science Education (ASE), the Institute of Physics (IOP), the Royal Society (RS), the Royal Society of Biology (RSB) and the Royal Society of Chemistry (RSC).

Take me to the:

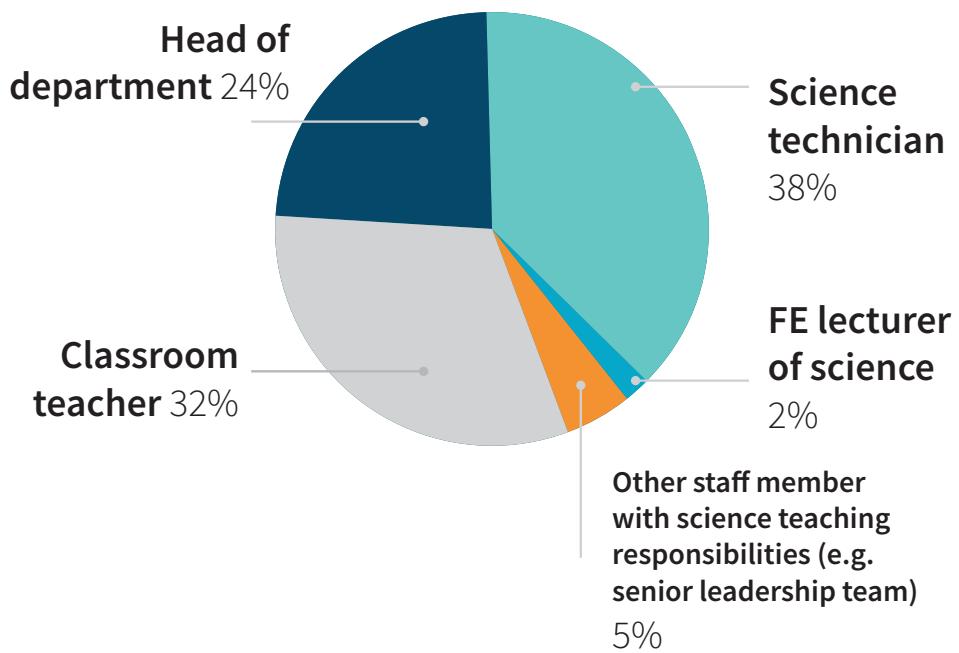
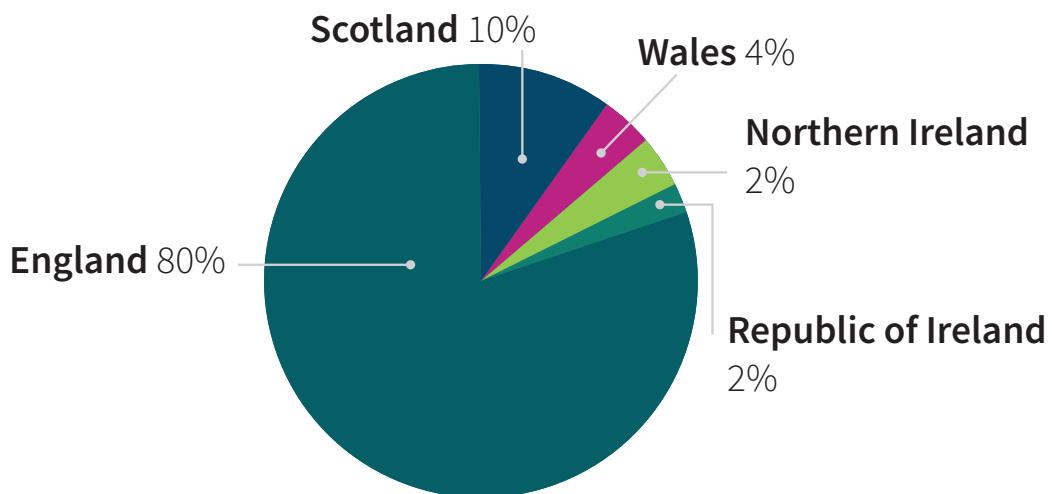
[2022 survey findings](#)

[2023 survey findings](#)

[2024 survey findings](#)

About the 2025 survey

Science teachers and technicians in secondary and further education (FE) completed the survey in April 2025. Here is a breakdown of survey participants by nation and job role:



*The data in the headlines pages is from all schools surveyed, however our data in sections A to H for each nation are from state funded secondary schools only.

Science Teaching Survey 2025 Headlines

Educators call for investment in science education



Insufficient funding is particularly affecting some nations, with the majority of respondents in Scotland (66%) and Wales (79%) indicating that this is a key challenge.

The proportion of teachers and technicians from state funded secondary schools reporting this issue has increased between 2023 and 2025.

The cost of consumables, chemicals and equipment is a barrier to running practical work, which negatively affects student learning outcomes.

What challenges does your school face?

	2023	2025
Insufficient funding	49%	57%
High staff turnover	26%	23%
Insufficient staff non-contact time (encroachment and reallocation)	40%	44%
Lack of support to students from parent/family/guardian	35%	34%
Poor pupil attendance	34%	32%
Understaffing of teaching staff	32%	30%
Understaffing of classroom support staff	40%	42%
High staff absence	21%	25%
Insufficient support from leadership	26%	33%
Negative working environment	18%	20%
Lack of collaboration/teamwork amongst staff	15%	20%
Not enough support for inexperienced teachers	15%	21%
There are no challenges	7%	5%
Other responses	7%	12%
Column n	2456	1931

Total sample; Unweighted

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Insufficient funding	853 (55%)	125 (66%)	63 (79%)	45 (59%)	19 (42%)
High staff turnover	367 (24%)	46 (24%)	17 (21%)	13 (17%)	9 (20%)
Insufficient staff non-contact time	656 (43%)	94 (49%)	32 (40%)	45 (59%)	23 (51%)
Lack of support to students from parent/family/guardian	511 (33%)	71 (37%)	43 (54%)	26 (34%)	13 (29%)
Poor pupil attendance	434 (28%)	104 (55%)	42 (53%)	25 (33%)	17 (38%)
Understaffing of teaching staff	455 (30%)	59 (31%)	24 (30%)	29 (38%)	8 (18%)
Understaffing of classroom support staff	628 (41%)	120 (63%)	42 (53%)	16 (21%)	12 (27%)
High staff absence	364 (24%)	72 (38%)	28 (35%)	14 (18%)	3 (7%)
Insufficient support from leadership	454 (29%)	97 (51%)	42 (53%)	25 (33%)	17 (38%)
Negative working environment	271 (18%)	56 (29%)	29 (36%)	21 (28%)	10 (22%)
Lack of collaboration/teamwork amongst staff	300 (19%)	47 (25%)	20 (25%)	16 (21%)	11 (24%)
Not enough support for inexperienced teachers	325 (21%)	32 (17%)	22 (28%)	19 (25%)	12 (27%)
Other	179 (12%)	27 (14%)	13 (16%)	6 (8%)	7 (16%)
There are no challenges	88 (6%)	1 (1%)	2 (3%)	3 (4%)	1 (2%)
Column n	1540	190	80	76	45

Total sample; Unweighted

What challenges does your school face? (continued)

	2023	2025
Insufficient funding	1072 (57%)	968 (63%)
High staff turnover	508 (27%)	365 (24%)
Insufficient staff non-contact time	771 (41%)	702 (45%)
Lack of support to students from parent/family/guardian	771 (41%)	605 (39%)
Poor pupil attendance	714 (38%)	563 (36%)
Understaffing of teaching staff	677 (36%)	502 (32%)
Understaffing of classroom support staff	884 (47%)	738 (48%)
High staff absence	470 (25%)	434 (28%)
Insufficient support from leadership	489 (26%)	513 (33%)
Negative working environment	357 (19%)	302 (20%)
Lack of collaboration/teamwork amongst staff	282 (15%)	312 (20%)
Not enough support for inexperienced teachers	282 (15%)	350 (23%)
Other	113 (6%)	163 (11%)
There are no challenges	75 (4%)	44 (3%)
Column n	1880	1546

Filter: State funded secondary schools; Unweighted

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Insufficient funding	748 (62%)	118 (68%)	57 (79%)	33 (52%)	12 (39%)
High staff turnover	292 (24%)	43 (25%)	16 (22%)	8 (13%)	6 (19%)
Insufficient staff non-contact time	537 (44%)	85 (49%)	28 (39%)	37 (59%)	15 (48%)
Lack of support to students from parent/family/guardian	466 (39%)	69 (40%)	41 (57%)	18 (29%)	11 (35%)
Poor pupil attendance	391 (32%)	98 (57%)	41 (57%)	19 (30%)	14 (45%)
Understaffing of teaching staff	395 (33%)	57 (33%)	22 (31%)	23 (37%)	5 (16%)
Understaffing of classroom support staff	561 (46%)	118 (68%)	38 (53%)	12 (19%)	9 (29%)
High staff absence	329 (27%)	67 (39%)	26 (36%)	10 (16%)	2 (6%)
Insufficient support from leadership	359 (30%)	87 (50%)	37 (51%)	19 (30%)	11 (35%)
Negative working environment	199 (16%)	51 (29%)	27 (38%)	17 (27%)	8 (26%)
Lack of collaboration/teamwork amongst staff	228 (19%)	42 (24%)	18 (25%)	13 (21%)	11 (35%)
Not enough support for inexperienced teachers	274 (23%)	31 (18%)	21 (29%)	15 (24%)	9 (29%)
Other	121 (10%)	24 (14%)	13 (18%)	3 (5%)	2 (6%)
There are no challenges	38 (3%)	0 (0%)	2 (3%)	3 (5%)	1 (3%)
Column n	1207	173	72	63	31

Filter: State funded secondary schools; Unweighted

What challenges does your school face? (continued)

	2023	2025
Understaffing of science technicians	508 (27%)	448 (29%)
Insufficient time for practical to be taught alongside theory	1128 (60%)	895 (58%)
Lack of equipment	658 (35%)	604 (39%)
No time for training/practicing	583 (31%)	505 (33%)
Health and safety concerns	282 (15%)	299 (19%)
Challenging student behaviour	959 (51%)	744 (48%)
Cost of consumables and chemicals	696 (37%)	668 (43%)
Lack of confidence in delivering practical sessions	132 (7%)	175 (11%)
Insufficient lab access	338 (18%)	278 (18%)
Unsuitable labs	376 (20%)	403 (26%)
No barriers	150 (8%)	111 (7%)
Other	132 (7%)	71 (5%)
Column n	1880	1546

Filter: State funded secondary schools; Unweighted

What are the barriers you face to running practical work in your school?

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Understaffing of science technicians	325 (27%)	55 (32%)	30 (42%)	19 (30%)	19 (61%)
Insufficient time for practical to be taught alongside theory	689 (57%)	105 (61%)	43 (60%)	36 (57%)	22 (71%)
Lack of equipment	445 (37%)	92 (53%)	32 (44%)	18 (29%)	17 (55%)
No time for training/practicing	397 (33%)	55 (32%)	25 (35%)	16 (25%)	12 (39%)
Health and safety concerns	225 (19%)	31 (18%)	18 (25%)	16 (25%)	9 (29%)
Challenging student behaviour	584 (48%)	87 (50%)	42 (58%)	21 (33%)	10 (32%)
Cost of consumables and chemicals	487 (40%)	106 (61%)	46 (64%)	21 (33%)	8 (26%)
Lack of confidence in delivering practical sessions	150 (12%)	11 (6%)	4 (6%)	5 (8%)	5 (16%)
Insufficient lab access	236 (20%)	10 (6%)	12 (17%)	8 (13%)	12 (39%)
Unsuitable labs	343 (28%)	24 (14%)	15 (21%)	12 (19%)	9 (29%)
Other	82 (7%)	19 (11%)	5 (7%)	4 (6%)	1 (3%)
No barriers	64 (5%)	2 (1%)	1 (1%)	3 (5%)	1 (3%)
Column n	1207	173	72	63	31
There are no challenges	38 (3%)	0 (0%)	2 (3%)	3 (5%)	1 (3%)
Column n	1207	173	72	63	31

Filter: State funded secondary schools; Unweighted

Which of the following barriers apply to your own experience of accessing subject specific professional development?

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Lack of funding for cover teachers	379 (53%)	77 (58%)	29 (76%)	29 (62%)	10 (32%)
Lack of available cover teachers	310 (43%)	72 (54%)	20 (53%)	29 (62%)	12 (39%)
Course cost & expenses to attend courses	462 (65%)	96 (72%)	27 (71%)	27 (57%)	5 (16%)
School policy restricts the type of courses I can attend	153 (21%)	24 (18%)	12 (32%)	5 (11%)	4 (13%)
Having to attend PD courses/training in my own time	377 (53%)	82 (62%)	22 (58%)	26 (55%)	22 (71%)
Availability of courses	237 (33%)	55 (41%)	15 (39%)	28 (60%)	18 (58%)
Lack of knowledge about opportunities	236 (33%)	46 (35%)	11 (29%)	23 (49%)	7 (23%)
Not having access to the required technology/software/learning platforms, etc.	34 (5%)	7 (5%)	3 (8%)	4 (9%)	4 (13%)
Prohibitive travel time / distance	238 (33%)	68 (51%)	16 (42%)	19 (40%)	5 (16%)
Other	61 (9%)	11 (8%)	2 (5%)	5 (11%)	3 (10%)
There are no barriers	42 (6%)	2 (2%)	0 (0%)	0 (0%)	1 (3%)
Column n	714	133	38	47	31

Filter: State funded secondary schools + Teachers only; Unweighted

	2023	2025
Lack of funding for cover teachers	921 (49%)	524 (54%)
Lack of available cover teachers	846 (45%)	443 (46%)
Course cost & expenses to attend courses	1166 (62%)	617 (64%)
School policy restricts the type of courses I can attend	338 (18%)	198 (21%)
Having to attend PD courses/training in my own time	921 (49%)	529 (55%)
Availability of courses	639 (34%)	353 (37%)
Lack of knowledge about opportunities	658 (35%)	323 (34%)
Not having access to the required technology/software/learning platforms, etc.	113 (6%)	52 (5%)
Prohibitive travel time / distance	620 (33%)	346 (36%)
There are no barriers	113 (6%)	82 (9%)
Other	169 (9%)	45 (5%)
Column n	1880	963

Filter: State funded secondary schools + Teachers only; Unweighted

Science Teaching Survey 2025 Headlines

A shortage of teaching assistants is having a negative impact on student learning



61% of all UK and Ireland respondents told us that there was a shortage of teaching assistants at their school (65% in state funded secondary schools).

42% of teachers, from all nations and school types, indicated that insufficient classroom support poses challenges to their science teaching. In Scotland, this rose to 65%.

70% of respondents in the UK and Ireland said that more teaching assistants would improve the equitable experience of students with SEND (Special Education Needs and Disabilities)/ ALN (Additional Learning Needs) in science lessons.

Please describe the staffing at your school or college for teaching assistants. By understaffed, we mean that you do not feel that the current provision is sufficient for your school.

Teaching assistants	
Overstaffed	12 (1%)
Adequately staffed	300 (18%)
Understaffed	1003 (61%)
Don't know / Not sure	316 (19%)
Column n	1631

Filter: Not select 'Not applicable'; Unweighted; base n = 1631-1898

Please describe the staffing at your school or college for teaching assistants. By understaffed, we mean that you do not feel that the current provision is sufficient for your school.

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Overstaffed	7 (1%)	0 (0%)	1 (1%)	4 (7%)	0 (0%)
Adequately staffed	259 (20%)	9 (5%)	8 (11%)	23 (38%)	1 (5%)
Understaffed	769 (59%)	141 (85%)	55 (75%)	21 (35%)	17 (85%)
Don't know / Not sure	278 (21%)	15 (9%)	9 (12%)	12 (20%)	2 (10%)
Column n	1313	165	73	60	20*

Filter: Not select 'Not applicable'; Unweighted. *Small sample size.

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Overstaffed	7 (1%)	0 (0%)	1 (1%)	4 (7%)	0 (0%)
Adequately staffed	259 (20%)	9 (5%)	8 (11%)	23 (38%)	1 (5%)
Understaffed	769 (59%)	141 (85%)	55 (75%)	21 (35%)	17 (85%)
Don't know / Not sure	278 (21%)	15 (9%)	9 (12%)	12 (20%)	2 (10%)
Column n	1313	165	73	60	20*

Filter: Not select 'Not applicable' + State funded secondary schools; Unweighted. *Small sample size.

Which of the following present challenges to your classroom teaching in science?

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Insufficient classroom support, e.g. no teaching assistants	381 (42%)	96 (65%)	20 (49%)	6 (11%)	21 (47%)
Column n	916	147	41	57	45

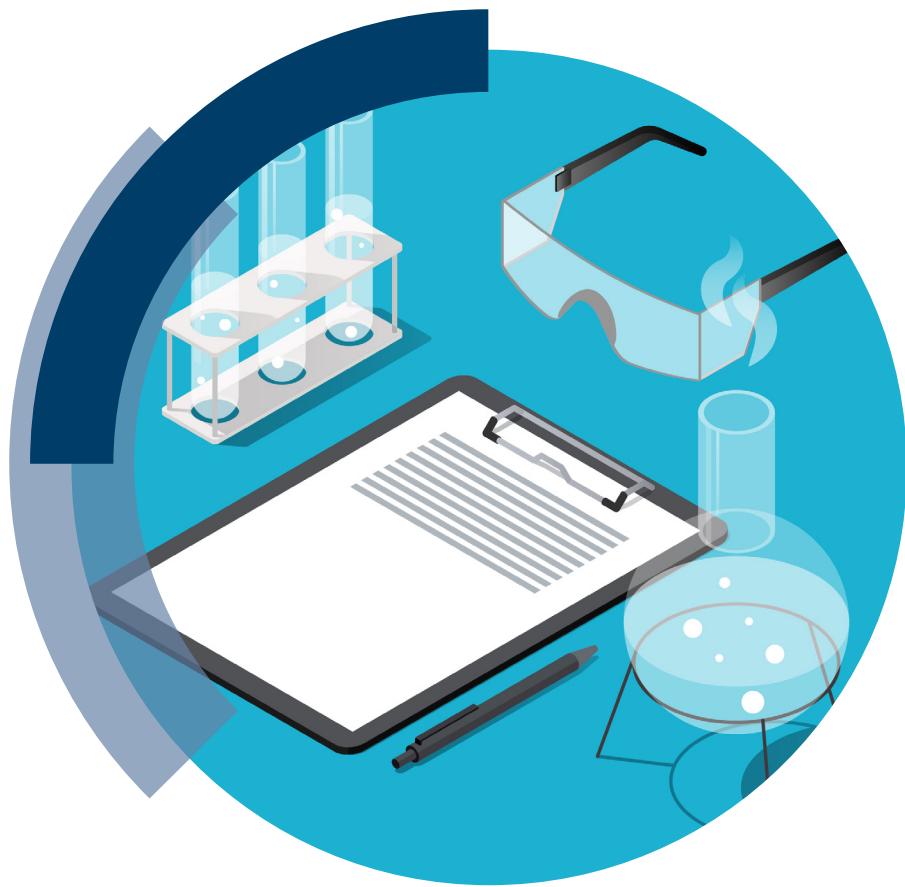
Filter: Teachers only; Unweighted

For your school/department, what would improve the equitable experience of students with SEND/ALN in science lessons?

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
More teaching assistant support	1048 (69%)	157 (85%)	61 (78%)	31 (41%)	38 (84%)
Specialist practical equipment (materials, ear defenders, quiet classroom areas etc)	518 (34%)	68 (37%)	34 (44%)	25 (33%)	16 (36%)
More training on specific strategies for SEND/ALN students	685 (45%)	91 (49%)	34 (44%)	37 (49%)	27 (60%)
Teaching resources that are accessible for SEND/ALN learners	704 (46%)	104 (56%)	39 (50%)	34 (45%)	25 (56%)
Specialist technology	316 (21%)	48 (26%)	16 (21%)	15 (20%)	14 (31%)
Other	119 (8%)	13 (7%)	10 (13%)	10 (13%)	1 (2%)
Column n	1518	185	78	75	45

Filter: Teachers only; Unweighted

A confident and vital technician workforce is at risk



A high percentage of technicians at all key stages feel confident in delivering support in the classroom.

Access to role-specific professional development is a challenge, with 30% of technicians in the UK indicating that they did not receive any CPD in the last academic year.

Since the 2023 survey, there has been a 159% increase in technicians citing high levels of stress and exhaustion as reasons for leaving their roles.

There is a shortage of science technicians, which is making it a challenge to run practical work.

For each of the key stages, how confident are you in supporting chemistry?

	Chemistry at KS3	Chemistry at KS4	Chemistry at KS5
Very and somewhat confident	525 (88%)	510 (86)	364 (77%)
Neither confident nor unconfident	18 (3%)	23 (4%)	37 (8%)
Very and somewhat unconfident	53 (9%)	62 (10%)	69 (15%)
Column n	596	595	470

Filter: Technician, England, Wales and Northern Ireland only + not selected 'Do not support'; Unweighted; base n = 446-596

For each of the levels, how confident are you in supporting chemistry?

	Chemistry at N4	Chemistry at N5	Chemistry at Higher	Chemistry at Advanced Higher
Very and somewhat confident	35 (88%)	36 (86%)	35 (83%)	33 (83%)
Neither confident nor unconfident	1 (3%)	2 (5%)	2 (5%)	2 (5%)
Very and somewhat unconfident	4 (10%)	4 (10%)	5 (12%)	5 (13%)
Column n	40	42	42	40

Filter: Technician, Scotland only + not selected 'Do not support'; Unweighted; base n = 34-42

Thinking about the last 12 months (since February 2024), please select the number of hours of role-specific professional development that you received:

	%
0 hrs - Didn't access any professional development	30%
Up to 5 hours	19%
5 - 9 hours	20%
10 - 14 hours	9%
15 - 19 hours	3%
20 - 24 hours	4%
25 - 29 hours	1%
30 - 34 hours	2%
35+ hours	2%
Don't know	9%
Column n	725

Filter: Technicians only + not selected 'Not applicable'; Unweighted; base n = 725

Headlines: A confident and vital technician workforce is at risk

Thinking again about the last 12 months since February 2024. Was the amount of time that you undertook role-specific professional development...?

	%
Sufficient and somewhat sufficient	29%
Neither sufficient nor insufficient	19%
Insufficient and somewhat insufficient	48%
Don't know / Can't remember	3%
Column n	725

Filter: Technicians only; Unweighted; base n = 725

What are your reasons for leaving your current school?

	%
Workload is too high / Lack of work life balance	27 (33%)
High levels of stress / exhaustion	36 (44%)
Lack of full-time contract (e.g. term time only)	18 (22%)
Low pay	58 (72%)
Lack of progression opportunities	54 (67%)
Lack of job security (e.g. temporary contracts)	3 (4%)
Lack of respect / don't feel appreciated	33 (41%)
Lack of recognition	39 (48%)
Having to perform tasks outside my role	23 (28%)
Poor student behaviour	24 (30%)
Issues with management	22 (27%)
Want to try something different	28 (35%)
Other	11 (14%)
Don't know / not sure	2 (2%)
Column n	81

Filter Technicians + not retiring; Unweighted; base n = 81

Headlines: A confident and vital technician workforce is at risk

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a technician at secondary school? Please select up to 5 factors from the following list that would be most influential.

	%
More balanced / reduced workload	15 (22%)
Better work/life balance	11 (16%)
Better job security	6 (9%)
Having the option to work part-time	5 (7%)
Having the option to work remotely/work from home where feasible	11 (16%)
Increased pay	55 (81%)
More opportunity for progression	44 (65%)
More respect / appreciation	27 (40%)
More recognition of work performance	28 (41%)
More support with student behaviour	10 (15%)
More support from senior management team	21 (31%)
Increase funding for classroom/school resources	18 (26%)
Timetabled / regular professional development	17 (25%)
Being able to find a position in a different school	2 (3%)
Other	6 (9%)
There isn't anything that could convince me	9 (13%)
Column n	68

Filter Technicians + moving out of Secondary education; Unweighted; base n = 68

Headlines: **A confident and vital technician workforce is at risk**

Please describe the staffing at your school or college for science technicians. By understaffed, we mean that you do not feel that the current provision is sufficient for your school.

	2023	2024	2025
Understaffed	38%	39%	38%
Column n	2932	1846	1871

Filter: Teachers only; Unweighted

Which of the following present challenges to your classroom teaching in science?

	%
No technician/not enough technicians	27%
Column n	1206

Filter: Teachers only; Unweighted; base n = 1206

What are the barriers you face to running practical work in your school?

	%
Understaffing of science technicians	28%
Column n	1931

Filter: Teachers only; Unweighted; base n = 1931

Educators face challenges in preparing young people for the future workforce



Nearly 32% of teachers across all school types and nations felt very or somewhat unconfident in providing information on technical and vocational scientific careers.

There are significant barriers to running practical work, including insufficient time, health and safety concerns, cost of consumables and chemicals, and unsuitable labs.

There is an increasing number of teachers reporting insufficient access to subject-specific CPD.

Encouragingly, many respondents reported that they were able to use digital technology in their schools when needed, and that they felt confident in their digital skillset.

How confident do you feel about providing information on technical/vocational routes into scientific careers?

	All	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Very and somewhat confident	47%	48%	52%	45%	40%	33%
Very and somewhat unconfident	32%	31%	31%	40%	46%	49%
Column n	1184	897	145	40	57	45

Filter: Teachers only; Unweighted

How confident do you feel about the following areas?

	Linking the curriculum to real-life contexts	Linking the curriculum to scientific careers	Providing information on academic routes into scientific careers	Providing information on technical/vocational routes into scientific careers
Very and somewhat confident	84%	80%	75%	47%
Neither confident nor unconfident	7%	9%	12%	20%
Very and somewhat unconfident	8%	10%	13%	32%
Don't know / Not sure	0%	0%	0%	1%
Column n	1197	1193	1190	1184

Filter: Teachers only + not selected 'Not applicable'; Unweighted; base n = 1184-1197

Headlines: **Educators face challenges in preparing young people for the future workforce**

What are the barriers you face to running practical work in your school?

	2023	2025
Understaffing of science technicians	26%	28%
Insufficient time for practical to be taught alongside theory	57%	55%
Lack of equipment	31%	36%
No time for training/practicing	28%	32%
Health and safety concerns	14%	19%
Challenging student behaviour	41%	42%
Cost of consumables and chemicals	33%	41%
Lack of confidence in delivering practical sessions	6%	11%
Insufficient lab access	17%	18%
Unsuitable labs	19%	25%
No barriers	12%	7%
Other	7%	7%
Column n	2456	1931

Filter: Not select 'Not applicable'; Unweighted; base n = 1631-1898

	Up to 30% FSM	Over 30% FSM
Understaffing of science technicians	27%	32%
Insufficient time for practical to be taught alongside theory	57%	59%
Lack of equipment	39%	39%
No time for training/practicing	33%	34%
Health and safety concerns	17%	24%
Challenging student behaviour	44%	61%
Cost of consumables and chemicals	46%	39%
Lack of confidence in delivering practical sessions	10%	13%
Insufficient lab access	15%	24%
Unsuitable labs	25%	27%
Other	7%	8%
No barriers	5%	4%
Column n	990	335

Filter: Not select 'Not applicable'; Unweighted; base n = 1631-1898

Thinking about the last 12 months, with each of your KS3/ Third Level/ Junior Cycle classes, how often did you generally do hands-on practical work in science lessons?

	KS3 / Third Level / Junior Cycle	GCSE / National 5 / Transition Year	A-Level / Higher / Senior Cycle
At least once a week	390 (38%)	210 (19%)	142 (17%)
At least once a fortnight	380 (37%)	368 (34%)	276 (33%)
At least once a month	197 (19%)	373 (34%)	305 (36%)
Once every couple of months	44 (4%)	110 (10%)	83 (10%)
Less often	16 (2%)	30 (3%)	30 (4%)
Never	5 (0%)	5 (0%)	5 (1%)
Don't know	1 (0%)	1 (0%)	4 (0%)
Column n	1033	1097	845

Total sample; Unweighted; base n = 1931

To what extent do you agree with the following statement? I am able to use digital technology (e.g. computer room / tablets / laptops / WiFi) when needed.

	Count	%
Strongly agree and agree	1552	81%
Neither agree nor disagree	139	7%
Strongly disagree and disagree	214	11%
Don't know / Not sure	10	1%
Column n	1915	1915

Total sample; Unweighted; base n = 1931

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Strongly agree and agree	1239 (81%)	150 (80%)	62 (79%)	62 (83%)	39 (87%)
Neither agree nor disagree	111 (7%)	14 (7%)	10 (13%)	1 (1%)	3 (7%)
Strongly disagree and disagree	170 (11%)	24 (13%)	5 (6%)	12 (16%)	3 (7%)
Don't know / Not sure	9 (1%)	0 (0%)	1 (1%)	0 (0%)	0 (0%)
Column n	1529	188	78	75	45

Total sample; Unweighted; base n = 1931

To what extent do you agree with the following statement? I am confident in using digital tools in my teaching.

	Count	%
Strongly agree and agree	741	63%
Neither agree nor disagree	249	21%
Strongly disagree and disagree	184	16%
Don't know / Not sure	12	1%
Column n	1186	

Filter: Teachers only; Unweighted

	England	Scotland	Wales	Northern Ireland	Republic of Ireland
Strongly agree and agree	565 (62%)	99 (68%)	19 (49%)	30 (53%)	27 (60%)
Neither agree nor disagree	193 (21%)	32 (22%)	6 (15%)	11 (20%)	6 (13%)
Strongly disagree and disagree	133 (15%)	12 (8%)	12 (31%)	15 (26%)	12 (27%)
Don't know / Not sure	10 (1%)	1 (1%)	1 (3%)	0 (0%)	0 (0%)
Column n	903	145	39	56	45

Filter: Teachers only; Unweighted

Thinking about the last 12 months, was the amount of time that you undertook subject specific professional development for chemistry...?

	2023	2024	2025
Sufficient + Somewhat sufficient	21%	18%	24%
Somewhat insufficient + Insufficient	30%	32%	41%
Column n	1210	1087	1175

Total sample; Unweighted; base n = 1931

Thinking about the last 12 months, please select the number of hours of subject specific professional development that you received for chemistry.

	2023	2025
0 hrs - Didn't access any professional development	49%	44%
Up to 5 hours	19%	27%
5 - 9 hours	6%	10%
10 - 14 hours	3%	4%
15 - 19 hours	1%	2%
20 - 24 hours	1%	2%
25 - 29 hours	0%	1%
30 - 34 hours	0%	1%
35+ hours	1%	2%
Don't know	1%	6%
Column n	1547	899

Filter: Teachers only; Unweighted

Section A

About your school

Summary

Respondents **in England** reported high levels of understaffing of teaching assistants and physics teachers, with only 17% of respondents feeling their school was adequately staffed for teaching assistants.

Equivalent data is available for [Wales](#), [Northern Ireland](#), [Scotland](#) and [Republic of Ireland](#).

Which of the following best describes your current job role?

	%
Head of department/principal teacher – Science	117 (10%)
Head of department/principal teacher – Chemistry	79 (7%)
Head of department/principal teacher – Physics	41 (3%)
Head of department/principal teacher – Biology	28 (2%)
Classroom teacher of science, biology, chemistry and/or physics	372 (31%)
FE lecturer of science, biology, chemistry and/or physics	4 (0%)
Science technician	493 (41%)
Trainee / student science teacher	0 (0%)
Other staff member with science teaching responsibilities, e.g. SLT	73 (6%)
Column n	1207

Filter: State funded secondary schools; Unweighted; base n = 1207

Which of the following best describes the school where you work?

	%
Local authority, Community, Foundation, or ETB	227 (19%)
Academy (standalone)	175 (14%)
Academy (in a multi-academy trust)	722 (60%)
Grammar school/selective school (any type of state school with selective admissions)	83 (7%)
Column n	1207

Filter: State funded secondary schools; Unweighted; base n = 1207

Please describe the staffing at your school or college in each of the following areas. By understaffed, we mean that you do not feel that the current provision is sufficient for your school.

	Biology teachers	Chemistry teachers	Physics teachers	Science technicians	Teaching assistants
Overstaffed	187 (16%)	29 (2%)	25 (2%)	13 (1%)	6 (1%)
Adequately staffed	780 (66%)	742 (63%)	520 (44%)	716 (60%)	193 (17%)
Understaffed	188 (16%)	385 (32%)	614 (52%)	452 (38%)	693 (62%)
Don't know / Not sure	32 (3%)	30 (3%)	27 (2%)	12 (1%)	227 (20%)
Column n	1187	1186	1186	1193	1119

Filter: Not select 'Not applicable' + State funded secondary schools; Unweighted; base n = 1119-1193

Which of the following are significantly impacted as a result of understaffing of biology, chemistry, and/or physics teachers?

	%
Learning	594 (78%)
Behaviour	337 (44%)
Student motivation	428 (56%)
GCSE subject choices	147 (19%)
HE progression routes	202 (27%)
Other	87 (11%)
Column n	758

Filter: Selected 'Understaffed' only + State funded secondary schools; Unweighted; base n = 758

Section B

About your role

Summary

Technicians broadly report good levels of confidence in supporting the three sciences across the three key stages.

Teachers similarly feel confident in teaching the three sciences, with confidence dropping at key stage 5 (for chemistry, the number of teachers feeling somewhat or very confident in teaching KS4 is 91%, but for KS5 this drops to 66%).

Job satisfaction is slightly higher for technicians than for teachers in England, as is wellbeing.

For which of these subjects, if any, would you define yourself as a specialist?

	%
Biology	272 (38%)
Chemistry	366 (51%)
Physics	231 (32%)
General Science	187 (26%)
None of the above	13 (2%)
Don't know / Not sure	0 (0%)
Column n	714

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 714

Including the current academic year, how many years have you been teaching the sciences? Please do not include your training year.

	%
1-2 YRS	39 (5%)
3-4 YRS	49 (7%)
5-9 YRS	155 (22%)
10+ YRS	1428 (66%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	714

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 714

Including the current academic year, how many years have you been working as a science technician?

	%
1-2 YRS	55 (11%)
3-4 YRS	55 (11%)
5-9 YRS	112 (23%)
10+ YRS	271 (55%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	493

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 493

For each of the key stages, how confident are you in supporting biology, chemistry and/or physics? If you don't support the particular subject content at a key stage, select 'Do not support'.

	Biology at KS3	Biology at KS4	Biology at KS5	Chemistry at KS3	Chemistry at KS4
Very unconfident	37 (8%)	35 (8%)	31 (9%)	38 (8%)	36 (8%)
Somewhat unconfident	5 (1%)	12 (3%)	26 (8%)	5 (1%)	17 (4%)
Neither confident nor un-confident	10 (2%)	19 (4%)	25 (8%)	16 (4%)	17 (4%)
Somewhat confident	73 (16%)	100 (22%)	110 (33%)	66 (15%)	83 (18%)
Very confident	327 (72%)	282 (63%)	140 (42%)	330 (73%)	301 (66%)
Column n	452	448	332	455	454

	Chemistry at KS5	Physics at KS3	Physics at KS4	Physics at KS5
Very unconfident	36 (11%)	37 (8%)	38 (8%)	37 (11%)
Somewhat unconfident	21 (6%)	21 (5%)	32 (7%)	56 (17%)
Neither confident nor un-confident	26 (8%)	25 (5%)	33 (7%)	49 (15%)
Somewhat confident	104 (31%)	100 (22%)	143 (32%)	90 (28%)
Very confident	149 (44%)	274 (60%)	206 (46%)	91 (28%)
Column n	336	457	452	323

Filter: Technician, England only + not selected 'Do not support' + State funded secondary schools; Unweighted; base n = 323-457

For each of the levels that you teach, how confident are you in teaching biology, chemistry and/or physics subject content to these levels? If you don't teach the particular subject content to a level, either as a single subject or as part of a combined science course, select 'Do not teach'.

	Biology at KS3	Biology at KS4	Biology at KS5	Chemistry at KS3	Chemistry at KS4
Very unconfident	24 (4%)	22 (4%)	91 (26%)	17 (3%)	17 (3%)
Somewhat unconfident	11 (2%)	54 (9%)	46 (13%)	8 (1%)	18 (3%)
Neither confident nor un-confident	11 (2%)	40 (7%)	22 (6%)	5 (1%)	23 (4%)
Somewhat confident	109 (17%)	155 (26%)	76 (21%)	74 (11%)	155 (25%)
Very confident	483 (76%)	323 (54%)	121 (34%)	544 (84%)	415 (66%)
Do not teach	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	638	594	356	648	628

	Chemistry at KS5	Physics at KS3	Physics at KS4	Physics at KS5
Very unconfident	56 (14%)	17 (3%)	25 (4%)	117 (33%)
Somewhat unconfident	52 (13%)	20 (3%)	43 (7%)	53 (15%)
Neither confident nor un-confident	30 (8%)	19 (3%)	42 (7%)	27 (8%)
Somewhat confident	62 (16%)	135 (21%)	209 (34%)	51 (14%)
Very confident	199 (50%)	456 (70%)	298 (48%)	108 (30%)
Do not teach	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	399	647	617	356

Filter: Teacher, England only + not selected 'Do not teach' + State funded secondary schools; Unweighted; base n = 356-648

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a teacher?

	%
Mean	6.3
Column n	714

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 714

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a technician?

	%
Mean	7.0
Column n	493

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 493

The next question is about your mental well-being and will help us to better understand the well-being of teachers and technicians working in education. This question is optional and can be skipped by pressing [next].

Teachers

	%
High wellbeing (28 or greater)	72 (10%)
Moderate wellbeing (20 - 27)	476 (67%)
Low wellbeing (Less than 20)	159 (22%)
Average (Mean)	22.4
Column n	707

Filter: Teachers + State funded secondary schools; Unweighted; base n = 707

Technicians

	%
High wellbeing (28 or greater)	118 (24%)
Moderate wellbeing (20 - 27)	304 (62%)
Low wellbeing (Less than 20)	66 (14%)
Average (Mean)	24.6
Column n	488

Filter: Technicians + State funded secondary schools; Unweighted; base n = 488

Section C

Retention

Summary

When asked how long they intend to stay in their current school, 12% of teacher respondents and 7% of technicians in England selected only to the end of the current academic year.

For teachers, the top reasons given for leaving included high workload (57%) and high levels of stress (55%). For technicians, low pay (76%) and a lack of progression opportunities (64%) were most cited.

How long do you intend to stay at your current school?

Teachers

	%
Up to the end of the current academic year	86 (12%)
Up to the end of the 25/26 academic year	72 (10%)
Up to the end of the 26/27 academic year	36 (5%)
Into the 27/28 academic year or beyond	250 (35%)
Don't know / Not sure	261 (37%)
Prefer not to say	9 (1%)
Column n	714

Filter Teachers + State funded secondary schools; Unweighted; base n = 714

How long do you intend to stay at your current school?

Technicians

	%
Up to the end of the current academic year	36 (7%)
Up to the end of the 25/26 academic year	42 (9%)
Up to the end of the 26/27 academic year	21 (4%)
Into the 27/28 academic year or beyond	180 (37%)
Don't know / Not sure	196 (40%)
Prefer not to say	18 (4%)
Column n	493

Filter Technicians + State funded secondary schools; Unweighted; base n = 493

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

Teachers

	%
Retirement	33 (17%)
Move to a similar role at a different state school	47 (24%)
Move to a different state school for promotion	35 (18%)
Move to a similar role at a private/independent school	10 (5%)
Move to a private/independent school for promotion	2 (1%)
Move into teaching at higher education	4 (2%)
Move into another role in education (not teaching)	12 (6%)
I want to do something outside of education / career change	25 (13%)
Have a career break	7 (4%)
Other	12 (6%)
Don't know / Not sure	7 (4%)
Column n	194

Filter Teachers + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 194

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

Technicians

	%
Retirement	44 (44%)
Move to a similar role at a different state school	8 (8%)
Move to a different state school for promotion	2 (2%)
Move to a similar role at a private/independent school	1 (1%)
Move to a private/independent school for promotion	1 (1%)
Move into another role in education	0 (0%)
Move to a technician role in HE	1 (1%)
Move to a technician role in FE	2 (2%)
Start training to be a teacher	3 (3%)
I want to do something outside of education / career change	29 (29%)
Other	4 (4%)
Don't know / Not sure	4 (4%)
Column n	99

Filter Technicians + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 99

What are your reasons for leaving your current school?

Teachers

	%
Workload is too high / Lack of work life balance	92 (57%)
High levels of stress / exhaustion	88 (55%)
Having to teach outside specialism	18 (11%)
Low pay	18 (11%)
Lack of progression opportunities	63 (39%)
Lack of respect / don't feel appreciated	75 (47%)
Lack of recognition	53 (33%)
Poor student behaviour	73 (45%)
Issues with management	65 (40%)
Want to try something different	39 (24%)
Other	31 (19%)
Don't know / not sure	1 (1%)
Column n	161

Filter Teachers + not retiring + State funded secondary schools; Unweighted; base n = 161

What are your reasons for leaving your current school?

Technicians

	%
Workload is too high / Lack of work life balance	17 (31%)
High levels of stress / exhaustion	21 (38%)
Lack of full-time contract (e.g. term time only)	11 (20%)
Low pay	42 (76%)
Lack of progression opportunities	35 (64%)
Lack of job security (e.g. temporary contracts)	1 (2%)
Lack of respect / don't feel appreciated	21 (38%)
Lack of recognition	25 (45%)
Having to perform tasks outside my role	14 (25%)
Poor student behaviour	18 (33%)
Issues with management	14 (25%)
Want to try something different	20 (36%)
Other	8 (15%)
Don't know / not sure	0 (0%)
Column n	55

Filter Technicians + not retiring + State funded secondary schools; Unweighted; base n = 55

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a teacher at secondary school? Please select up to 5 factors from the following list that would be most influential.

Teachers

	%
More balanced / reduced workload	37 (67%)
Better work/life balance	40 (73%)
Having the option to work part-time	7 (13%)
Having the option to work remotely/work from home where feasible	19 (35%)
Increased pay	22 (40%)
Only expected to teach content you consider yourself a specialist in	7 (13%)
More opportunity for progression	5 (9%)
More respect / appreciation	18 (33%)
More recognition of work performance	8 (15%)
More support with student behaviour	23 (42%)
Less emphasis on exam results	10 (18%)
Less pressure regarding assessed school performance and inspections	15 (27%)
More support from parents	10 (18%)
More support from senior management team	10 (18%)
Increase funding for classroom/school resources	15 (27%)
Timetabled / regular professional development	0 (0%)
Being able to find a position in a different school	4 (7%)
Other	2 (4%)
There isn't anything that could convince me	0 (0%)
Column n	55

Filter Teachers + moving out of Secondary teaching + State funded secondary schools; Unweighted; base n = 55

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a technician at secondary school? Please select up to 5 factors from the following list that would be most influential.

Technicians

	%
More balanced / reduced workload	8 (19%)
Better work/life balance	6 (14%)
Better job security	1 (2%)
Having the option to work part-time	4 (9%)
Having the option to work remotely/work from home where feasible	4 (9%)
Increased pay	38 (88%)
More opportunity for progression	28 (65%)
More respect / appreciation	14 (33%)
More recognition of work performance	14 (33%)
More support with student behaviour	6 (14%)
More support from senior management team	14 (33%)
Increase funding for classroom/school resources	11 (26%)
Timetabled / regular professional development	10 (23%)
Being able to find a position in a different school	1 (2%)
Other	3 (7%)
There isn't anything that could convince me	4 (9%)
Column n	43

Filter Technicians + moving out of Secondary education + State funded secondary schools; Unweighted; base n = 43

Section D

Challenges & barriers

Summary

Teachers reported several challenges at classroom level. Not having enough time out of the classroom was the most cited challenge (74%), followed by not enough classroom time to cover the curriculum content (64%) and challenging student behaviour (62%). Although high, challenging student behaviour was less of a challenge in England compared to Scotland and Wales.

As reported in our headlines, funding is the largest challenge identified at school level, with staff reporting that more funding would help address these challenges.

Respondents identified similar themes when considering barriers to running practical work in their schools. Insufficient time for practical work to be taught alongside theory (57%) and challenging student behaviour (48%) were the highest cited barriers.

Which of the following present challenges to your classroom teaching in science?

	%
Limited numeracy skills of students	352 (49%)
Limited literacy skills of students	385 (54%)
Insufficient classroom support, e.g. no teaching assistants	336 (47%)
Student attendance	390 (55%)
Challenging student behaviour	446 (62%)
Inadequate teaching resources (lesson plans / scheme of work)	136 (19%)
No technician/not enough technicians	166 (23%)
Teaching outside of specialism	118 (17%)
Lack of confidence in the subject area	30 (4%)
Insufficient lab access	141 (20%)
Insufficient classroom equipment	234 (33%)
Not enough classroom time to cover the curriculum content	455 (64%)
Not enough time outside of classroom (for planning/marking and/or assessment)	525 (74%)
Other	57 (8%)
There are no challenges	11 (2%)
Column n	714

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 714

What challenges does your school face?

	%
Insufficient funding	748 (62%)
High staff turnover	292 (24%)
Insufficient staff non-contact time	537 (44%)
Lack of support to students from parent/family/guardian	466 (39%)
Poor pupil attendance	391 (32%)
Understaffing of teaching staff	395 (33%)
Understaffing of classroom support staff	561 (46%)
High staff absence	329 (27%)
Insufficient support from leadership	359 (30%)
Negative working environment	199 (16%)
Lack of collaboration/teamwork amongst staff	228 (19%)
Not enough support for inexperienced teachers	274 (23%)
Other	121 (10%)
There are no challenges	38 (3%)
Column n	1207

Filter: State funded secondary schools; Unweighted; base n = 1207

What support do you need to address these challenges, either in the classroom and/or across the school?

	%
Consistent policies including behaviour management, attendance and learning and teaching	449 (37%)
More funding	823 (68%)
More non-contact time (for planning, PD, practising practical work)	674 (56%)
More classroom support staff	566 (47%)
Support from leadership	410 (34%)
Greater access to subject specific professional development	340 (28%)
Greater collaboration with colleagues	250 (21%)
Protected non-contact time	481 (40%)
Leadership led cultural shift	325 (27%)
Other	79 (7%)
Don't require support	39 (3%)
Column n	1207

Filter: State funded secondary schools; Unweighted; base n = 1207

Thinking about the last 12 months, with each of your KS3 / Third Level / Junior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	183 (30%)	180 (29%)	110 (18%)
At least once a fortnight	245 (40%)	219 (35%)	112 (18%)
At least once a month	144 (23%)	168 (27%)	144 (23%)
Once every couple of months	32 (5%)	28 (5%)	100 (16%)
Less often	13 (2%)	23 (4%)	123 (20%)
Never	2 (0%)	2 (0%)	31 (5%)
Don't know	1 (0%)	1 (0%)	1 (0%)
Column n	620	621	621

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 620-621

Thinking about the last 12 months, with each of your GCSE / National 5 / Transition Year classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	104 (16%)	112 (17%)	93 (14%)
At least once a fortnight	222 (33%)	218 (33%)	147 (22%)
At least once a month	242 (37%)	210 (32%)	187 (28%)
Once every couple of months	76 (11%)	86 (13%)	106 (16%)
Less often	17 (3%)	35 (5%)	105 (16%)
Never	1 (0%)	0 (0%)	21 (3%)
Don't know	1 (0%)	2 (0%)	4 (1%)
Column n	663	663	663

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 663

Thinking about the last 12 months, with each of your A-Level / Higher/ Senior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	56 (13%)	39 (9%)	29 (7%)
At least once a fortnight	141 (32%)	98 (22%)	50 (11%)
At least once a month	177 (40%)	117 (27%)	99 (23%)
Once every couple of months	50 (11%)	61 (14%)	67 (15%)
Less often	11 (3%)	89 (20%)	120 (27%)
Never	2 (0%)	32 (7%)	68 (15%)
Don't know	3 (1%)	3 (1%)	7 (2%)
Column n	440	439	440

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 439-440

What are the barriers you face to running practical work in your school?

	%
Understaffing of science technicians	325 (27%)
Insufficient time for practical to be taught alongside theory	689 (57%)
Lack of equipment	445 (37%)
No time for training/practicing	397 (33%)
Health and safety concerns	225 (19%)
Challenging student behaviour	584 (48%)
Cost of consumables and chemicals	487 (40%)
Lack of confidence in delivering practical sessions	150 (12%)
Insufficient lab access	236 (20%)
Unsuitable labs	343 (28%)
Other	82 (7%)
No barriers	64 (5%)
Column n	1207

Filter: State funded secondary schools; Unweighted; base n = 1207

Section E

Professional development

Summary

Over the period of February 2024 to February 2025, 48% of those teaching chemistry did not access any subject specific professional development (compared to 53% of those teaching biology and 44% of those teaching physics). 30% of science technicians did not access any role-specific professional development in the same time period.

54% of those teaching chemistry felt the amount of time they undertook subject-specific professional development was insufficient, or somewhat insufficient. Teachers reported that course cost & expenses to attend (65%), having to attend courses in their own time (53%), and a lack of funding for cover teachers (53%) were the biggest barriers to accessing subject-specific PD. The top barriers to technicians accessing role-specific PD included course cost & expenses to attend (61%) and the availability of courses (50%).

Thinking about the last 12 months (since February 2024), please select the number of hours of subject specific professional development that you received for each of the following subjects: If you didn't teach this subject in the last 12 months, please select 'Not applicable - don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
0 hrs - Didn't access any professional development	274 (53%)	277 (48%)	242 (44%)	234 (45%)	144 (32%)
Up to 5 hours	143 (28%)	171 (30%)	174 (31%)	146 (28%)	72 (16%)
5 - 9 hours	32 (6%)	50 (9%)	55 (10%)	51 (10%)	58 (13%)
10 – 14 hours	9 (2%)	14 (2%)	17 (3%)	29 (6%)	49 (11%)
15 – 19 hours	8 (2%)	6 (1%)	3 (1%)	7 (1%)	25 (6%)
20 - 24 hours	2 (0%)	10 (2%)	9 (2%)	6 (1%)	19 (4%)
25 - 29 hours	8 (2%)	5 (1%)	8 (1%)	2 (0%)	13 (3%)
30 - 34 hours	1 (0%)	4 (1%)	4 (1%)	3 (1%)	19 (4%)
35+ hours	1 (0%)	5 (1%)	8 (1%)	4 (1%)	16 (4%)
Don't know	43 (8%)	37 (6%)	38 (7%)	37 (7%)	39 (9%)
Column n	519	578	556	518	451

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 451-578

Thinking about the last 12 months (since February 2024), please select the number of hours of role-specific professional development that you received:

SSPD	%
0 hrs - Didn't access any professional development	149 (30%)
Up to 5 hours	90 (18%)
5 - 9 hours	92 (19%)
10 - 14 hours	43 (9%)
15 - 19 hours	17 (3%)
20 - 24 hours	23 (5%)
25 - 29 hours	9 (2%)
30 - 34 hours	9 (2%)
35+ hours	10 (2%)
Don't know	51 (10%)
Column n	493

Filter: Technicians only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 493

Thinking again about the last 12 months (since February 2024). Was the amount of time that you undertook subject specific professional development for each subject...? If you didn't teach this subject in the last academic year, please select 'Not applicable – don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
Insufficient	238 (42%)	244 (39%)	241 (40%)	207 (38%)	91 (24%)
Somewhat insufficient	91 (16%)	95 (15%)	81 (14%)	63 (12%)	36 (10%)
Neither sufficient nor insufficient	83 (15%)	87 (14%)	85 (14%)	90 (17%)	55 (15%)
Somewhat sufficient	47 (8%)	69 (11%)	71 (12%)	60 (11%)	42 (11%)
Sufficient	81 (14%)	103 (17%)	98 (16%)	92 (17%)	133 (35%)
Don't know / Can't remember	28 (5%)	24 (4%)	21 (4%)	30 (6%)	19 (5%)
Not applicable – don't teach this subject	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	568	622	597	542	376

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 376-622

Thinking again about the last 12 months since February 2024. Was the amount of time that you undertook role-specific professional development...?

	%
Insufficient	151 (31%)
Somewhat insufficient	79 (16%)
Neither sufficient nor insufficient	94 (19%)
Somewhat sufficient	66 (13%)
Sufficient	88 (18%)
Don't know / Can't remember	15 (3%)
Column n	493

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 493

Which of the following barriers apply to your own experience of accessing subject specific professional development?

	%
Lack of funding for cover teachers	379 (53%)
Lack of available cover teachers	310 (43%)
Course cost & expenses to attend courses	462 (65%)
School policy restricts the type of courses I can attend	153 (21%)
Having to attend PD courses/training in my own time	377 (53%)
Availability of courses	237 (33%)
Lack of knowledge about opportunities	236 (33%)
Not having access to the required technology/software/learning platforms, etc.	34 (5%)
Prohibitive travel time / distance	238 (33%)
Other	61 (9%)
There are no barriers	42 (6%)
Column n	714

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 714

Which of the following barriers apply to your own experience of accessing role-specific professional development?

	%
Lack of funding for cover staff	52 (11%)
Lack of available cover staff	65 (13%)
Course cost & expenses to attend courses	300 (61%)
School policy restricts the type of courses I can attend	62 (13%)
Having to attend PD courses/training in my own time	53 (11%)
Availability of courses	245 (50%)
Lack of knowledge about opportunities	78 (16%)
Not having access to the required technology/software/learning platforms, etc.	20 (4%)
Prohibitive travel time / distance	231 (47%)
There are no barriers	57 (12%)
Column n	493

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 493

Why is subject-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	481 (67%)
It helps me to develop my expertise in areas I haven't taught before	407 (57%)
It gives me new ideas to improve my teaching based on the latest education research	576 (81%)
It increases my confidence in using practical activities in my lessons	320 (45%)
It helps me to develop teaching approaches to meet specific learner needs	436 (61%)
It helps me contextualise the curriculum	332 (46%)
It allows me to share ideas and learn from other teachers outside of my classroom	476 (67%)
It increases my enthusiasm for my subject	401 (56%)
Other, please elaborate	17 (2%)
It's not important to me	21 (3%)
Column n	714

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 714

Why is role-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	311 (63%)
It helps me to develop my expertise in health and safety and prep room management	359 (73%)
It gives me new ideas to improve practical activities	399 (81%)
It increases my confidence in my role	311 (63%)
It gives me a deeper knowledge of how practical activities can be used to support the delivery of the curriculum	322 (65%)
It allows me to share ideas and learn from other technicians outside of my school	372 (75%)
It increases my enthusiasm for my job	301 (61%)
Other, please elaborate	9 (2%)
Column n	493

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 493

Aside from statutory PD e.g. safeguarding, what are your school's priorities for CPD?

	%
Developing the leadership talent pipeline	150 (12%)
Developing leadership skills of those in post	156 (13%)
Improving teacher subject expertise	157 (13%)
Prioritising whole school PD based on the school improvement plan	682 (57%)
Developing teaching approaches to meet specific learner needs	425 (35%)
Contextualising subjects	51 (4%)
Other, please elaborate	67 (6%)
Don't know	321 (27%)
Column n	1207

Filter: State funded secondary schools; Unweighted; base n = 1207

Section F

Vocational pathways

Summary

We asked teachers about their awareness of and advocacy for different academic and vocational science pathways. Advocacy levels were highest for traditional science pathways (A levels, undergraduate degrees).

It appears that lower levels of advocacy are due to a lack of awareness in teachers of certain pathways (e.g. for some apprenticeships). Despite it being a flagship route at level 3, most teachers are not advocating for their students to complete a T-level in the sciences (only 25% are aware of and advocate for this route).

How confident do you feel about the following areas?

	Linking the curriculum to real-life contexts	Linking the curriculum to scientific careers	Providing information on academic routes into scientific careers	Providing information on technical/vocational routes into scientific careers
Very unconfident	16 (2%)	16 (2%)	23 (3%)	49 (7%)
Somewhat unconfident	32 (5%)	51 (7%)	65 (9%)	158 (23%)
Neither confident nor unconfident	55 (8%)	63 (9%)	81 (12%)	152 (22%)
Somewhat confident	335 (47%)	323 (46%)	323 (46%)	243 (35%)
Very confident	269 (38%)	248 (35%)	209 (30%)	95 (14%)
Don't know / Not sure	2 (0%)	5 (1%)	3 (0%)	4 (1%)
Not applicable / Don't include in my teaching	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	709	706	704	701

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 701-709

For each of the following academic and vocational science pathways, please tell us which you are aware of and advocate to your students.

	A levels	International Baccalaureate	T levels	BTEC Nationals	BTEC Apprenticeships	Cambridge Technicals
Not aware	5 (1%)	127 (18%)	79 (11%)	70 (10%)	133 (19%)	313 (44%)
Aware but don't advocate	30 (4%)	448 (63%)	397 (56%)	295 (41%)	266 (37%)	253 (35%)
Aware and advocate to my students	662 (93%)	74 (10%)	177 (25%)	299 (42%)	257 (36%)	70 (10%)
Don't know / Not sure	16 (2%)	64 (9%)	60 (8%)	49 (7%)	57 (8%)	77 (11%)
Column n	713	713	713	713	713	713

	NVQs	Advanced Apprenticeships	Higher Apprenticeship	Degree Apprenticeship	Foundation degree	Undergraduate degree
Not aware	194 (27%)	184 (26%)	170 (24%)	95 (13%)	66 (9%)	14 (2%)
Aware but don't advocate	345 (48%)	160 (22%)	155 (22%)	140 (20%)	201 (28%)	59 (8%)
Aware and advocate to my students	99 (14%)	302 (42%)	319 (45%)	426 (60%)	409 (57%)	624 (88%)
Don't know / Not sure	75 (11%)	67 (9%)	69 (10%)	52 (7%)	37 (5%)	16 (2%)
Column n	713	713	713	713	713	713

Filter: Teachers, England only + State funded secondary schools; Unweighted; base n = 713

What are the barriers, if any, that prevent you from advocating for vocational pathways to your students?

	%
Lack of detailed knowledge about the pathways	17 (55%)
Lack of funding	4 (13%)
Lack of local availability of courses	4 (13%)
Lack of local availability of placements	2 (6%)
School is focused on academic pathways	4 (13%)
Don't know / Not sure	4 (13%)
Other	5 (16%)
There are no barriers	4 (13%)
Column n	31

Filter: Teachers, Not advocated to any vocational pathways only + State funded secondary schools; Unweighted; base n = 31

What are the barriers for you working with external organisations to deliver outreach activities to your students?

	%
Limited time	607 (85%)
Funding	422 (59%)
Student behaviour	113 (16%)
Lack of support and encouragement from senior leaders	151 (21%)
Lack of interest / engagement from local organisations, companies etc	175 (25%)
Safeguarding concerns	32 (5%)
Lack of awareness of opportunities	327 (46%)
I don't see the benefits for students	10 (1%)
Lack of my time to organise	509 (72%)
Lack of time within the school day to enable this	437 (61%)
Other priorities/pressures (eg Ofsted)	144 (20%)
Lack of interest / engagement from local organisations, companies etc	7 (1%)
Column n	711

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 711

Section G

Digital technology

Summary

Teachers across the nations appear to have comparable levels of access to digital technology.

80% of teachers in England agree or strongly agree that they can use digital technology when needed and 61% agree or strongly agree that they are confident in using digital tools.

Only 16% of teachers never use digital tools in their science lessons.

Have you ever used AI within your role?

	%
Yes	533 (44%)
No	665 (56%)
Column n	1198

Filter: State funded secondary schools; Unweighted; base n = 1198

Which of the following AI-powered tools or technologies (if any) have you used or experimented with in your teaching practice?

	%
Grammarly	51 (10%)
magic.ai	24 (5%)
Teachermatic	2 (0%)
Teachmateai	52 (10%)
Riffbot	0 (0%)
Revisely	12 (2%)
Copilot	144 (27%)
ChatGPT	468 (88%)
DALL-E 3	13 (2%)
Oak Aila lesson planning tool	20 (4%)
Google Bard	27 (5%)
Other, please provide	85 (16%)
Column n	532

Filter: Have used AI + State funded secondary schools; Unweighted; base n = 532

To what extent do you agree with the following statement? I am able to use digital technology (e.g. computer room / tablets / laptops / WiFi) when needed.

	%
Strongly agree	487 (41%)
Agree	463 (39%)
Neither agree nor disagree	91 (8%)
Disagree	86 (7%)
Strongly disagree	64 (5%)
Don't know / Not sure	6 (1%)
Column n	1197

Filter: State funded secondary schools; Unweighted; base n = 1197

How often does your department use digital tools in your lessons, e.g. light gates, digital microscopes?

	%
Every week	107 (9%)
Once a topic (where relevant)	583 (49%)
Once a term	249 (21%)
Never	188 (16%)
Don't know / Not sure	70 (6%)
Column n	1197

Filter: State funded secondary schools; Unweighted; base n = 1197

To what extent do you agree with the following statement? I am confident in using digital tools in my teaching.

	%
Strongly agree	147 (21%)
Agree	283 (40%)
Neither agree nor disagree	159 (23%)
Disagree	75 (11%)
Strongly disagree	32 (5%)
Don't know / Not sure	7 (1%)
Column n	703

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 703

Section H

Additional support and resources

Summary

54% of teachers somewhat or strongly agree that students with SEND/ALN have access to the support and resources needed to engage in science lessons comparably with their peers. Similarly, 55% of teachers somewhat or strongly agree that students with SEND/ALN have access to support and resources needed to participate in all practical activities in science lessons.

76% of respondents felt that more teaching assistant support would improve the equitable experience of students with SEND/ALN in science lessons.

How far do you agree with the following statements?

	Students with SEND/ALN have access to any additional support/resources needed to engage in science lessons comparably to their peers	Students with SEND/ALN have access to any additional support/resources needed to participate in all practical activities in science lessons
Strongly agree	99 (14%)	124 (18%)
Somewhat agree	279 (40%)	259 (37%)
Neither agree nor disagree	114 (16%)	118 (17%)
Somewhat disagree	136 (20%)	132 (19%)
Strongly disagree	57 (8%)	50 (7%)
Don't know / Not sure	12 (2%)	14 (2%)
Column n	697	697

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 697

For your school/department, what would improve the equitable experience of students with SEND/ALN in science lessons?

	%
More teaching assistant support	910 (76%)
Specialist practical equipment (materials, ear defenders, quiet classroom areas etc)	432 (36%)
More training on specific strategies for SEND/ALN students	531 (45%)
Teaching resources that are accessible for SEND/ALN learners	571 (48%)
Specialist technology	263 (22%)
Other	70 (6%)
Column n	1190

Filter: State funded secondary schools; Unweighted; base n = 1190

Section A

About your school

Summary

Respondents **in Scotland** reported significantly higher understaffing of teaching assistants compared to the other nations of the UK and ROI, with 87% of staff feeling current provision of TAs is not sufficient for their school. The staffing of chemistry teachers in Scotland is the best among the nations, with only 22% of respondents feeling they are understaffed.

Equivalent data is available for [Wales](#), [Northern Ireland](#), [England](#) and [Republic of Ireland](#).

Which of the following best describes your current job role?

	%
Head of department/principal teacher – Science	16 (9%)
Head of department/principal teacher – Chemistry	2 (1%)
Head of department/principal teacher – Physics	1 (1%)
Head of department/principal teacher – Biology	1 (1%)
Classroom teacher of science, biology, chemistry and/or physics	108 (62%)
FE lecturer of science, biology, chemistry and/or physics	0 (0%)
Science technician	40 (23%)
Trainee / student science teacher	0 (0%)
Other staff member with science teaching responsibilities, e.g. SLT	5 (3%)
Column n	173

Filter: State funded secondary schools; Unweighted; base n = 173

Which of the following best describes the school where you work?

	%
Local authority, Community, Foundation, or ETB	167 (97%)
Academy (standalone)	5 (3%)
Academy (in a multi-academy trust)	1 (1%)
Grammar school/selective school (any type of state school with selective admissions)	0 (0%)
Column n	173

Filter: State funded secondary schools; Unweighted; base n = 173

Please describe the staffing at your school or college in each of the following areas. By understaffed, we mean that you do not feel that the current provision is sufficient for your school.

	Biology teachers	Chemistry teachers	Physics teachers	Science technicians	Teaching assistants
Overstaffed	23 (13%)	6 (4%)	3 (2%)	1 (1%)	0 (0%)
Adequately staffed	125 (73%)	124 (73%)	107 (63%)	95 (55%)	7 (5%)
Understaffed	18 (11%)	37 (22%)	56 (33%)	76 (44%)	134 (87%)
Don't know / Not sure	5 (3%)	4 (2%)	5 (3%)	0 (0%)	13 (8%)
Column n	171	171	171	172	154

Filter: Not select 'Not applicable' + State funded secondary schools; Unweighted; base n = 154-172

Which of the following are significantly impacted as a result of understaffing of biology, chemistry, and/or physics teachers?

	%
Learning	62 (84%)
Behaviour	46 (62%)
Student motivation	40 (54%)
GCSE subject choices	26 (35%)
HE progression routes	20 (27%)
Other	18 (24%)
Column n	74

Filter: Selected 'Understaffed' only + State funded secondary schools; Unweighted; base n = 74

Section B

About your role

Summary

Technicians broadly report good levels of confidence in supporting the three sciences across Nationals, Highers and Advanced Highers.

Teachers generally feel confident in teaching the three sciences at National level. Confidence falls for teachers delivering Highers, and particularly Advanced Highers in chemistry and physics (for chemistry, the number of teachers feeling somewhat or very confident in teaching N5 is 84%, but for Highers this drops to 75%, and for Advanced Highers it falls further to 63%). These confidence levels are lower for Scottish teachers compared to teachers delivering equivalent qualifications in the other nations.

Job satisfaction is higher for technicians than for teachers in Scotland, as is wellbeing.

For which of these subjects, if any, would you define yourself as a specialist?

	%
Biology	40 (30%)
Chemistry	57 (43%)
Physics	56 (42%)
General Science	67 (50%)
None of the above	0 (0%)
Don't know / Not sure	0 (0%)
Column n	133

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 133

Including the current academic year, how many years have you been teaching the sciences? Please do not include your training year.

	%
1-2 YRS	10 (8%)
3-4 YRS	14 (11%)
5-9 YRS	28 (21%)
10+ YRS	266 (61%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	133

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 133

Including the current academic year, how many years have you been working as a science technician?

	%
1-2 YRS	4 (10%)
3-4 YRS	3 (8%)
5-9 YRS	8 (20%)
10+ YRS	25 (63%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	40

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 40

For each of the levels, how confident are you in supporting biology, chemistry and/or physics? If you don't support the particular subject content to a level, select 'Do not support'.

	Biology at N4	Biology at N5	Biology at Higher	Human Biology at Higher	Biology at Advanced Higher	Chemistry at N4
Very unconfident	4 (11%)	4 (10%)	3 (8%)	3 (8%)	3 (8%)	4 (11%)
Somewhat unconfident	0 (0%)	0 (0%)	1 (3%)	1 (3%)	1 (3%)	0 (0%)
Neither confident nor un-confident	1 (3%)	1 (3%)	2 (5%)	1 (3%)	3 (8%)	1 (3%)
Somewhat confident	4 (11%)	4 (10%)	9 (24%)	10 (27%)	7 (19%)	9 (24%)
Very confident	28 (76%)	30 (77%)	23 (61%)	22 (59%)	23 (62%)	23 (62%)
Column n	37	39	38	37	37	37

	Chemistry at N5	Chemistry at Higher	Chemistry at Advanced Higher	Physics at N4	Physics at N5	Physics at Higher	Physics at Advanced Higher
Very unconfident	4 (10%)	3 (8%)	4 (11%)	5 (15%)	5 (14%)	5 (14%)	8 (24%)
Somewhat unconfident	0 (0%)	2 (5%)	1 (3%)	4 (12%)	4 (11%)	8 (23%)	5 (15%)
Neither confident nor un-confident	2 (5%)	2 (5%)	2 (5%)	4 (12%)	5 (14%)	4 (11%)	5 (15%)
Somewhat confident	9 (23%)	11 (28%)	15 (41%)	7 (21%)	10 (29%)	9 (26%)	10 (29%)
Very confident	24 (62%)	21 (54%)	15 (41%)	13 (39%)	11 (31%)	9 (26%)	6 (18%)
Column n	39	39	37	33	35	35	34

Filter: Technician, Scotland only + not selected 'Do not support' + State funded secondary schools; Unweighted; base n = 33-39

In which combinations, if any, do you teach multiple qualifications in one class?

	%
N4 with N5	90 (68%)
N5 with Higher	12 (9%)
N3 with N4	28 (21%)
N3 with N4 and N5	31 (23%)
N4 with N5 and Higher	5 (4%)
Higher with AH	7 (5%)
Don't know	0 (0%)
I do not teach any classes with multiple qualifications but there are elsewhere in my faculty	11 (8%)
Our faculty does not teach multiple qualifications in one class	20 (15%)
Other	4 (3%)
Column n	133

Filter: Teachers, Scotland only + State funded secondary schools; Unweighted; base n = 133

For each of the levels that you teach, how confident are you in teaching biology, chemistry and/or physics subject content to these levels? If you don't teach the particular subject content to a level, either as a single subject or as part of a combined science course, select 'Do not teach'.

	Biology at N4	Biology at N5	Biology at Higher	Human Biology at Higher	Biology at Advanced Higher	Chemistry at N4
Very unconfident	0 (0%)	3 (6%)	5 (14%)	5 (14%)	6 (18%)	1 (1%)
Somewhat unconfident	4 (7%)	2 (4%)	1 (3%)	3 (9%)	5 (15%)	4 (6%)
Neither confident nor un-confident	4 (7%)	1 (2%)	3 (8%)	1 (3%)	1 (3%)	4 (6%)
Somewhat confident	14 (25%)	4 (9%)	7 (19%)	9 (26%)	10 (30%)	18 (25%)
Very confident	33 (60%)	37 (79%)	20 (56%)	17 (49%)	11 (33%)	44 (62%)
Column n	55	47	36	35	33	71

	Chemistry at N5	Chemistry at Higher	Chemistry at Advanced Higher	Physics at N4	Physics at N5	Physics at Higher	Physics at Advanced Higher
Very unconfident	4 (6%)	10 (16%)	12 (21%)	1 (1%)	5 (7%)	9 (14%)	12 (21%)
Somewhat unconfident	6 (9%)	5 (8%)	7 (13%)	6 (9%)	3 (4%)	2 (3%)	8 (14%)
Neither confident nor un-confident	1 (1%)	1 (2%)	2 (4%)	3 (4%)	1 (1%)	3 (5%)	2 (4%)
Somewhat confident	8 (12%)	5 (8%)	15 (27%)	12 (17%)	4 (6%)	6 (9%)	20 (36%)
Very confident	49 (72%)	42 (67%)	20 (36%)	48 (69%)	55 (81%)	45 (69%)	14 (25%)
Column n	68	63	56	70	68	65	56

Filter: Teacher, Scotland only + not selected 'Do not teach' + State funded secondary schools; Unweighted; base n = 33-71

In your school, are the sciences commonly taught in English, Gaelic, or both?

	Biology in the BGE	Biology at National 5	Biology at Higher	Chemistry in the BGE	Chemistry at National 5	Chemistry at Higher	Physics in the BGE	Physics at National 5	Physics at Higher
English	130 (98%)	133 (100%)	133 (100%)	131 (98%)	133 (100%)	133 (100%)	131 (98%)	133 (100%)	133 (100%)
Gaelic	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Both	3 (2%)	0 (0%)	0 (0%)	2 (2%)	0 (0%)	0 (0%)	2 (2%)	0 (0%)	0 (0%)
Column n	133	133	133	133	133	133	133	133	133

Filter: Teacher, Scotland only + State funded secondary schools; Unweighted; base n = 133

How confident do you feel teaching the sciences in Gaelic?

	Biology in the BGE	Biology at National 5	Biology at Higher	Chemistry in the BGE	Chemistry at National 5	Chemistry at Higher	Physics in the BGE	Physics at National 5	Physics at Higher
Very confident	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Somewhat confident	1 (100%)	0 (0%)	0 (0%)	1 (100%)	0 (0%)	0 (0%)	1 (100%)	0 (0%)	0 (0%)
Neither confident nor unconfident	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Somewhat unconfident	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Very unconfident	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Don't know / Not sure	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	1*	0	0	1*	1*	0	1*	0	0

Filter: Teacher, Scotland only + Subject taught in Gaelic + State funded secondary schools; Unweighted; base n = 1. *Small sample size.

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a teacher?

	%
Mean	5.9
Column n	133

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 133

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a technician?

	%
Mean	6.8
Column n	40

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 40

In line with findings from our previous surveys, teachers in Scotland still report high levels of teaching multiple qualifications in one class. This includes mixing N4 and N5 (68% report delivering this combination), N3 and N4 (21%), and N5 with Highers (9%). Only 15% of respondents did not teach multiple qualifications in one class.

Respondents to this survey rarely teach the sciences in Gaelic, with 100% of National 5 and Higher chemistry lessons being taught in English.

The next question is about your mental well-being and will help us to better understand the well-being of teachers and technicians working in education. This question is optional and can be skipped by pressing [next].

Teachers

	%
High wellbeing (28 or greater)	17 (13%)
Moderate wellbeing (20 - 27)	73 (56%)
Low wellbeing (Less than 20)	41 (31%)
Average (Mean)	21.9
Column n	131

Filter: Teachers + State funded secondary schools; Unweighted; base n = 131

Technicians

	%
High wellbeing (28 or greater)	8 (20%)
Moderate wellbeing (20 - 27)	25 (63%)
Low wellbeing (Less than 20)	7 (18%)
Average (Mean)	24.2
Column n	40

Filter: Technicians + State funded secondary schools; Unweighted; base n = 40

Section C

Retention

Summary

When asked how long they intend to stay in their current school, 12% of teacher respondents and 0% of technicians in Scotland selected only to the end of the current academic year.

Poor student behaviour (55%) and issues with management (70%) were more commonly cited by teachers as reasons for leaving compared to teachers in England.

The reasons given by technicians for leaving are available below, but sample size is too small for comment.

How long do you intend to stay at your current school?

Teachers

	%
Up to the end of the current academic year	16 (12%)
Up to the end of the 25/26 academic year	5 (4%)
Up to the end of the 26/27 academic year	6 (5%)
Into the 27/28 academic year or beyond	53 (40%)
Don't know / Not sure	52 (39%)
Prefer not to say	1 (1%)
Column n	133

Filter Teachers + State funded secondary schools; Unweighted; base n = 133

How long do you intend to stay at your current school?

Technicians

	%
Up to the end of the current academic year	0 (0%)
Up to the end of the 25/26 academic year	1 (3%)
Up to the end of the 26/27 academic year	2 (5%)
Into the 27/28 academic year or beyond	17 (43%)
Don't know / Not sure	18 (45%)
Prefer not to say	2 (5%)
Column n	40

Filter Technicians + State funded secondary schools; Unweighted; base n = 40

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

Teachers

	%
Retirement	7 (26%)
Move to a similar role at a different state school	10 (37%)
Move to a different state school for promotion	1 (4%)
Move to a similar role at a private/independent school	1 (4%)
Move to a private/independent school for promotion	0 (0%)
Move into teaching at higher education	0 (0%)
Move into another role in education (not teaching)	1 (4%)
I want to do something outside of education / career change	2 (7%)
Have a career break	0 (0%)
Other	4 (15%)
Don't know / Not sure	1 (4%)
Column n	27*

Filter Teachers + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 27.

*Small sample size.

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

Technicians

	%
Retirement	2 (67%)
Move to a similar role at a different state school	0 (0%)
Move to a different state school for promotion	0 (0%)
Move to a similar role at a private/independent school	0 (0%)
Move to a private/independent school for promotion	0 (0%)
Move into another role in education	0 (0%)
Move to a technician role in HE	0 (0%)
Move to a technician role in FE	0 (0%)
Start training to be a teacher	0 (0%)
I want to do something outside of education / career change	0 (0%)
Other	1 (33%)
Don't know / Not sure	0 (0%)
Column n	3*

Filter Technicians + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 3.

*Small sample size.

What are your reasons for leaving your current school?

Teachers

	%
Workload is too high / Lack of work life balance	12 (60%)
High levels of stress / exhaustion	12 (60%)
Having to teach outside specialism	2 (10%)
Low pay	1 (5%)
Lack of progression opportunities	8 (40%)
Lack of respect / don't feel appreciated	11 (55%)
Lack of recognition	10 (50%)
Poor student behaviour	11 (55%)
Issues with management	14 (70%)
Want to try something different	0 (0%)
Other	10 (50%)
Don't know / not sure	0 (0%)
Column n	20*

Filter Teachers + not retiring + State funded secondary schools; Unweighted; base n = 20. *Small sample size.

What are your reasons for leaving your current school?

Technicians

	%
Workload is too high / Lack of work life balance	0 (0%)
High levels of stress / exhaustion	0 (0%)
Lack of full-time contract (e.g. term time only)	0 (0%)
Low pay	0 (0%)
Lack of progression opportunities	0 (0%)
Lack of job security (e.g. temporary contracts)	0 (0%)
Lack of respect / don't feel appreciated	0 (0%)
Lack of recognition	0 (0%)
Having to perform tasks outside my role	0 (0%)
Poor student behaviour	0 (0%)
Issues with management	0 (0%)
Want to try something different	0 (0%)
Other	0 (0%)
Don't know / not sure	1 (100%)
Column n	1*

Filter Technicians + not retiring + State funded secondary schools; Unweighted; base n = 1. *Small sample size.

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a teacher at secondary school? Please select up to 5 factors from the following list that would be most influential.

Teachers

	%
More balanced / reduced workload	4 (100%)
Better work/life balance	2 (50%)
Having the option to work part-time	0 (0%)
Having the option to work remotely/work from home where feasible	0 (0%)
Increased pay	1 (25%)
Only expected to teach content you consider yourself a specialist in	0 (0%)
More opportunity for progression	2 (50%)
More respect / appreciation	0 (0%)
More recognition of work performance	1 (25%)
More support with student behaviour	2 (50%)
Less emphasis on exam results	1 (25%)
Less pressure regarding assessed school performance and inspections	1 (25%)
More support from parents	0 (0%)
More support from senior management team	1 (25%)
Increase funding for classroom/school resources	2 (50%)
Timetabled / regular professional development	0 (0%)
Being able to find a position in a different school	0 (0%)
Other	1 (25%)
There isn't anything that could convince me	0 (0%)
Column n	4*

Filter Teachers + moving out of Secondary teaching + State funded secondary schools; Unweighted; base n = 4.

*Small sample size.

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a technician at secondary school? Please select up to 5 factors from the following list that would be most influential.

Technicians

	%
More balanced / reduced workload	0 (0%)
Better work/life balance	0 (0%)
Better job security	0 (0%)
Having the option to work part-time	0 (0%)
Having the option to work remotely/work from home where feasible	0 (0%)
Increased pay	0 (0%)
More opportunity for progression	0 (0%)
More respect / appreciation	0 (0%)
More recognition of work performance	0 (0%)
More support with student behaviour	0 (0%)
More support from senior management team	0 (0%)
Increase funding for classroom/school resources	0 (0%)
Timetabled / regular professional development	0 (0%)
Being able to find a position in a different school	0 (0%)
Other	1 (100%)
There isn't anything that could convince me	0 (0%)
Column n	1*

Filter Technicians + moving out of Secondary education + State funded secondary schools; Unweighted; base n = 1. *Small sample size.

Section D

Challenges & barriers

Summary

Teachers reported several challenges at classroom level. Limited numeracy and literacy skills of students were among the most cited challenges (82 and 77% respectively), along with student attendance (79%). The feeling of challenge associated with the limited numeracy and literacy skills of students was notably greater than all other nations. Both student attendance and challenging student behaviour were higher than all other nations except for Wales where levels are comparably high.

As reported in our headlines, funding is the largest challenge identified at school level (although an equal challenge in Scotland is the understaffing of classroom support staff).

Respondents identified similar themes when considering barriers to running practical work in their schools. The cost of consumables and chemicals (61%) and insufficient time for practical work to be taught alongside theory (61%) were the highest cited barriers.

Which of the following present challenges to your classroom teaching in science?

	%
Limited numeracy skills of students	109 (82%)
Limited literacy skills of students	103 (77%)
Insufficient classroom support, e.g. no teaching assistants	92 (69%)
Student attendance	105 (79%)
Challenging student behaviour	103 (77%)
Inadequate teaching resources (lesson plans / scheme of work)	29 (22%)
No technician/not enough technicians	37 (28%)
Teaching outside of specialism	7 (5%)
Lack of confidence in the subject area	4 (3%)
Insufficient lab access	12 (9%)
Insufficient classroom equipment	59 (44%)
Not enough classroom time to cover the curriculum content	76 (57%)
Not enough time outside of classroom (for planning/marking and/or assessment)	104 (78%)
Other	21 (16%)
There are no challenges	0 (0%)
Column n	133

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 133

What challenges does your school face?

	%
Insufficient funding	118 (68%)
High staff turnover	43 (25%)
Insufficient staff non-contact time	85 (49%)
Lack of support to students from parent/family/guardian	69 (40%)
Poor pupil attendance	98 (57%)
Understaffing of teaching staff	57 (33%)
Understaffing of classroom support staff	118 (68%)
High staff absence	67 (39%)
Insufficient support from leadership	87 (50%)
Negative working environment	51 (29%)
Lack of collaboration/teamwork amongst staff	42 (24%)
Not enough support for inexperienced teachers	31 (18%)
Other	24 (14%)
There are no challenges	0 (0%)
Column n	173

Filter: State funded secondary schools; Unweighted; base n = 173

What support do you need to address these challenges, either in the classroom and/or across the school?

	%
Consistent policies including behaviour management, attendance and learning and teaching	102 (59%)
More funding	119 (69%)
More non-contact time (for planning, PD, practising practical work)	110 (64%)
More classroom support staff	117 (68%)
Support from leadership	89 (51%)
Greater access to subject specific professional development	61 (35%)
Greater collaboration with colleagues	50 (29%)
Protected non-contact time	77 (45%)
Leadership led cultural shift	68 (39%)
Other	22 (13%)
Don't require support	0 (0%)
Column n	173

Filter: State funded secondary schools; Unweighted; base n = 173

Thinking about the last 12 months, with each of your KS3 / Third Level/ Junior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	89 (69%)	51 (40%)	17 (13%)
At least once a fortnight	32 (25%)	41 (32%)	17 (13%)
At least once a month	6 (5%)	24 (19%)	21 (16%)
Once every couple of months	2 (2%)	6 (5%)	22 (17%)
Less often	0 (0%)	7 (5%)	43 (33%)
Never	0 (0%)	0 (0%)	10 (8%)
Don't know	0 (0%)	0 (0%)	0 (0%)
Column n	129	129	130

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 129-130

Thinking about the last 12 months, with each of your GCSE / National 5/ Transition Year classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	25 (20%)	16 (13%)	7 (6%)
At least once a fortnight	45 (35%)	38 (30%)	21 (17%)
At least once a month	43 (34%)	41 (32%)	25 (20%)
Once every couple of months	10 (8%)	13 (10%)	34 (27%)
Less often	3 (2%)	16 (13%)	28 (22%)
Never	1 (1%)	3 (2%)	10 (8%)
Don't know	0 (0%)	0 (0%)	2 (2%)
Column n	127	127	127

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 127

Thinking about the last 12 months, with each of your A-Level / Higher / Senior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	15 (13%)	9 (8%)	4 (3%)
At least once a fortnight	32 (27%)	26 (22%)	11 (9%)
At least once a month	44 (37%)	30 (25%)	27 (23%)
Once every couple of months	16 (13%)	21 (18%)	26 (22%)
Less often	12 (10%)	26 (22%)	34 (28%)
Never	1 (1%)	7 (6%)	16 (13%)
Don't know	0 (0%)	1 (1%)	2 (2%)
Column n	120	120	120

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 120

What are the barriers you face to running practical work in your school?

	%
Understaffing of science technicians	55 (32%)
Insufficient time for practical to be taught alongside theory	105 (61%)
Lack of equipment	92 (53%)
No time for training/practicing	55 (32%)
Health and safety concerns	31 (18%)
Challenging student behaviour	87 (50%)
Cost of consumables and chemicals	106 (61%)
Lack of confidence in delivering practical sessions	11 (6%)
Insufficient lab access	10 (6%)
Unsuitable labs	24 (14%)
Other	19 (11%)
No barriers	2 (1%)
Column n	173

Filter: State funded secondary schools; Unweighted; base n = 173

Section E

Professional development

Summary

Over the period of February 2024 to February 2025, 22% of those teaching chemistry did not access any subject specific professional development (compared to 33% of those teaching biology and 23% of those teaching physics). 28% of science technicians did not access any role-specific professional development in the same time period.

41% of those teaching chemistry felt the amount of time they undertook subject-specific professional development was insufficient, or somewhat insufficient. Teachers reported that course cost & expenses to attend (72%), having to attend courses in their own time (62%), and a lack of funding for cover teachers (58%) were the biggest barriers to accessing subject-specific PD. The top barriers to technicians accessing role-specific PD included the availability of courses (65%) and course cost & expenses to attend (58%).

Broadly, teachers and technicians in Scotland have better access to role- or subject-specific professional development, and are more satisfied with the time spent doing so, compared to teachers in England and Wales.

Thinking about the last 12 months (since February 2024), please select the number of hours of subject specific professional development that you received for each of the following subjects: If you didn't teach this subject in the last 12 months, please select 'Not applicable - don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
0 hrs - Didn't access any professional development	16 (33%)	14 (22%)	15 (23%)	39 (34%)	9 (14%)
Up to 5 hours	9 (18%)	18 (28%)	17 (26%)	36 (32%)	12 (19%)
5 - 9 hours	6 (12%)	10 (15%)	13 (20%)	13 (11%)	12 (19%)
10 – 14 hours	3 (6%)	6 (9%)	8 (12%)	7 (6%)	11 (17%)
15 – 19 hours	4 (8%)	7 (11%)	3 (5%)	4 (4%)	3 (5%)
20 - 24 hours	3 (6%)	4 (6%)	4 (6%)	4 (4%)	6 (9%)
25 - 29 hours	4 (8%)	2 (3%)	3 (5%)	3 (3%)	1 (2%)
30 - 34 hours	0 (0%)	2 (3%)	1 (2%)	1 (1%)	4 (6%)
35+ hours	1 (2%)	1 (2%)	2 (3%)	0 (0%)	5 (8%)
Don't know	3 (6%)	2 (3%)	1 (2%)	7 (6%)	1 (2%)
Column n	49	65	66	114	64

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 49-114

Thinking about the last 12 months (since February 2024), please select the number of hours of role-specific professional development that you received:

SSPD	%
0 hrs - Didn't access any professional development	11 (28%)
Up to 5 hours	9 (23%)
5 - 9 hours	5 (13%)
10 – 14 hours	4 (10%)
15 – 19 hours	3 (8%)
20 - 24 hours	2 (5%)
25 - 29 hours	1 (3%)
30 - 34 hours	1 (3%)
35+ hours	0 (0%)
Don't know	4 (10%)
Column n	40

Filter: Technicians only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 40

Thinking again about the last 12 months (since February 2024). Was the amount of time that you undertook subject specific professional development for each subject...? If you didn't teach this subject in the last academic year, please select 'Not applicable – don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
Insufficient	12 (23%)	10 (15%)	14 (22%)	28 (24%)	3 (5%)
Somewhat insufficient	13 (25%)	17 (26%)	16 (25%)	30 (25%)	6 (11%)
Neither sufficient nor insufficient	10 (19%)	7 (11%)	3 (5%)	18 (15%)	11 (20%)
Somewhat sufficient	6 (11%)	14 (22%)	13 (21%)	19 (16%)	11 (20%)
Sufficient	11 (21%)	16 (25%)	15 (24%)	19 (16%)	20 (36%)
Don't know / Can't remember	1 (2%)	1 (2%)	2 (3%)	4 (3%)	4 (7%)
Not applicable – don't teach this subject	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	53	65	63	118	55

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 53-118

Thinking again about the last 12 months since February 2024. Was the amount of time that you undertook role-specific professional development...?

	%
Insufficient	7 (18%)
Somewhat insufficient	8 (20%)
Neither sufficient nor insufficient	9 (23%)
Somewhat sufficient	8 (20%)
Sufficient	6 (15%)
Don't know / Can't remember	2 (5%)
Column n	40

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 40

Which of the following barriers apply to your own experience of accessing subject specific professional development?

	%
Lack of funding for cover teachers	77 (58%)
Lack of available cover teachers	72 (54%)
Course cost & expenses to attend courses	96 (72%)
School policy restricts the type of courses I can attend	24 (18%)
Having to attend PD courses/training in my own time	82 (62%)
Availability of courses	55 (41%)
Lack of knowledge about opportunities	46 (35%)
Not having access to the required technology/software/learning platforms, etc.	7 (5%)
Prohibitive travel time / distance	68 (51%)
Other	11 (8%)
There are no barriers	2 (2%)
Column n	133

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 133

Which of the following barriers apply to your own experience of accessing role-specific professional development?

	%
Lack of funding for cover staff	3 (8%)
Lack of available cover staff	13 (33%)
Course cost & expenses to attend courses	23 (58%)
School policy restricts the type of courses I can attend	1 (3%)
Having to attend PD courses/training in my own time	7 (18%)
Availability of courses	26 (65%)
Lack of knowledge about opportunities	10 (25%)
Not having access to the required technology/software/learning platforms, etc.	7 (18%)
Prohibitive travel time / distance	17 (43%)
There are no barriers	2 (5%)
Column n	40

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 40

Why is subject-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	92 (69%)
It helps me to develop my expertise in areas I haven't taught before	81 (61%)
It gives me new ideas to improve my teaching based on the latest education research	115 (86%)
It increases my confidence in using practical activities in my lessons	81 (61%)
It helps me to develop teaching approaches to meet specific learner needs	89 (67%)
It helps me contextualise the curriculum	68 (51%)
It allows me to share ideas and learn from other teachers outside of my classroom	109 (82%)
It increases my enthusiasm for my subject	90 (68%)
Other, please elaborate	2 (2%)
It's not important to me	2 (2%)
Column n	133

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 133

Why is role-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	32 (80%)
It helps me to develop my expertise in health and safety and prep room management	36 (90%)
It gives me new ideas to improve practical activities	33 (83%)
It increases my confidence in my role	31 (78%)
It gives me a deeper knowledge of how practical activities can be used to support the delivery of the curriculum	32 (80%)
It allows me to share ideas and learn from other technicians outside of my school	35 (88%)
It increases my enthusiasm for my job	26 (65%)
Other, please elaborate	1 (3%)
Column n	40

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 40

Aside from statutory PD e.g. safeguarding, what are your school's priorities for CPD?

	%
Developing the leadership talent pipeline	11 (6%)
Developing leadership skills of those in post	11 (6%)
Improving teacher subject expertise	6 (3%)
Prioritising whole school PD based on the school improvement plan	106 (61%)
Developing teaching approaches to meet specific learner needs	49 (28%)
Contextualising subjects	3 (2%)
Other, please elaborate	15 (9%)
Don't know	46 (27%)
Column n	173

Filter: State funded secondary schools; Unweighted; base n = 173

Section F

Vocational pathways

Summary

Scottish teachers report good confidence in linking the curriculum to both real-life contexts and scientific careers, with 85% feeling somewhat or very confident in both areas.

We asked teachers about their awareness of and advocacy for different academic and vocational science pathways. Teacher advocacy levels were highest for traditional routes into the sciences (Highers, Advanced Highers, undergraduate degrees). It appears that lower levels of advocacy are due to a lack of awareness in teachers of certain pathways (e.g. for some apprenticeships). Only 16% of teachers are aware of and advocate for SVQs.

How confident do you feel about the following areas?

	Linking the curriculum to real-life contexts	Linking the curriculum to scientific careers	Providing information on academic routes into scientific careers	Providing information on technical/vocational routes into scientific careers
Very unconfident	2 (2%)	2 (2%)	2 (2%)	5 (4%)
Somewhat unconfident	10 (8%)	9 (7%)	13 (10%)	36 (27%)
Neither confident nor unconfident	7 (5%)	10 (8%)	16 (12%)	23 (17%)
Somewhat confident	67 (50%)	66 (50%)	65 (49%)	50 (38%)
Very confident	47 (35%)	46 (35%)	36 (27%)	17 (13%)
Don't know / Not sure	0 (0%)	0 (0%)	0 (0%)	1 (1%)
Not applicable / Don't include in my teaching	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	133	133	132	132

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 132-133

For each of the following academic and vocational science pathways, please tell us which you are aware of and advocate to your students.

	Highers	Advanced Highers	International Baccalaureate	National Progression Award (NPA)	SVQs
Not aware	0 (0%)	1 (1%)	25 (19%)	9 (7%)	30 (23%)
Aware but don't advocate	3 (2%)	9 (7%)	84 (64%)	49 (37%)	68 (52%)
Aware and advocate to my students	128 (97%)	121 (92%)	13 (10%)	70 (53%)	21 (16%)
Don't know / Not sure	1 (1%)	1 (1%)	10 (8%)	4 (3%)	13 (10%)
Column n	132	132	132	132	132

	Foundation Apprenticeship	Modern Apprenticeship	Graduate Apprenticeship	Further Education courses (e.g. HNC/HND)	Undergraduate degree
Not aware	12 (9%)	13 (10%)	17 (13%)	4 (3%)	0 (0%)
Aware but don't advocate	49 (37%)	41 (31%)	47 (36%)	32 (24%)	10 (8%)
Aware and advocate to my students	64 (48%)	70 (53%)	61 (46%)	90 (68%)	119 (90%)
Don't know / Not sure	7 (5%)	8 (6%)	7 (5%)	6 (5%)	3 (2%)
Column n	132	132	132	132	132

Filter: Teachers, Scotland only + State funded secondary schools; Unweighted; base n = 132

What are the barriers, if any, that prevent you from advocating for vocational pathways to your students?

	%
Lack of detailed knowledge about the pathways	3 (75%)
Lack of funding	0 (0%)
Lack of local availability of courses	1 (25%)
Lack of local availability of placements	1 (25%)
School is focused on academic pathways	1 (25%)
Don't know / Not sure	0 (0%)
Other	1 (25%)
There are no barriers	0 (0%)
Column n	4*

Filter: Teachers, Not advocated to any vocational pathways only + State funded secondary schools; Unweighted; base n = 4. *Small sample size.

What are the barriers for you working with external organisations to deliver outreach activities to your students?

	%
Limited time	112 (85%)
Funding	79 (60%)
Student behaviour	30 (23%)
Lack of support and encouragement from senior leaders	30 (23%)
Lack of interest / engagement from local organisations, companies etc	27 (20%)
Safeguarding concerns	7 (5%)
Lack of awareness of opportunities	61 (46%)
I don't see the benefits for students	1 (1%)
Lack of my time to organise	104 (79%)
Lack of time within the school day to enable this	94 (71%)
Other priorities/pressures (eg Ofsted)	26 (20%)
Lack of interest / engagement from local organisations, companies etc	0 (0%)
Column n	132

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 132

Section G

Digital technology

Summary

Teachers across the nations appear to have comparable levels of access to digital technology. 79% of teachers in Scotland agree or strongly agree that they can use digital technology when needed and 69% agree or strongly agree that they are confident in using digital tools.

Only 9% of teachers never use digital tools in their science lessons. Teachers in Scotland report higher confidence in this area compared to the other nations.

Have you ever used AI within your role?

	%
Yes	82 (48%)
No	90 (52%)
Column n	172

Filter: State funded secondary schools; Unweighted; base n = 172

Which of the following AI-powered tools or technologies (if any) have you used or experimented with in your teaching practice?

	%
Grammarly	14 (17%)
magic.ai	9 (11%)
Teachermatic	0 (0%)
Teachmateai	13 (16%)
Riffbot	0 (0%)
Revisely	1 (1%)
Copilot	22 (27%)
ChatGPT	71 (87%)
DALL-E 3	1 (1%)
Oak Aila lesson planning tool	1 (1%)
Google Bard	4 (5%)
Other, please provide	17 (21%)
Column n	82

Filter: Have used AI + State funded secondary schools; Unweighted; base n = 82

To what extent do you agree with the following statement? I am able to use digital technology (e.g. computer room / tablets / laptops / WiFi) when needed.

	%
Strongly agree	73 (42%)
Agree	63 (37%)
Neither agree nor disagree	14 (8%)
Disagree	7 (4%)
Strongly disagree	15 (9%)
Don't know / Not sure	0 (0%)
Column n	172

Filter: State funded secondary schools; Unweighted; base n = 172

How often does your department use digital tools in your lessons, e.g. light gates, digital microscopes?

	%
Every week	35 (20%)
Once a topic (where relevant)	86 (50%)
Once a term	21 (12%)
Never	16 (9%)
Don't know / Not sure	14 (8%)
Column n	172

Filter: State funded secondary schools; Unweighted; base n = 172

To what extent do you agree with the following statement? I am confident in using digital tools in my teaching.

	%
Strongly agree	43 (33%)
Agree	48 (36%)
Neither agree nor disagree	29 (22%)
Disagree	7 (5%)
Strongly disagree	3 (2%)
Don't know / Not sure	1 (1%)
Column n	132

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 132

Are you aware of, or have you been involved with the curriculum improvement cycle for Science in Scotland?

	%
Yes	64 (48%)
No	58 (44%)
Don't know / Not sure	10 (8%)
Column n	132

Filter: Teachers, Scotland only + State funded secondary schools; Unweighted; base n = 132

Where did you hear about this?

	%
Education Scotland on X (Twitter)	7 (11%)
Education Scotland website	22 (34%)
Education Scotland Instagram	2 (3%)
Via school communications	25 (39%)
Via local authority communications	14 (22%)
Word of mouth (i.e from teachers online or face to face)	27 (42%)
Other	13 (20%)
Column n	64

Filter: Teachers, Scotland + Have heard or are aware of the curriculum improvement cycle only + State funded secondary schools; Unweighted; base n = 64

Section H

Additional support and resources

Summary

SEND/ALN students in Scotland have less access to resources and support they need compared to the other nations of the UK. 38% of teachers somewhat or strongly agree that students with SEND/ALN have access to the support and resources needed to engage in science lessons comparably with their peers (compared to 54% in England and 47% in Wales). 42% of teachers somewhat or strongly agree that students with SEND/ALN have access to support and resources needed to participate in all practical activities in science lessons.

86% of respondents felt that more teaching assistant support would improve the equitable experience of students with SEND/ALN in science lessons.

How far do you agree with the following statements?

	Students with SEND/ALN have access to any additional support/resources needed to engage in science lessons comparably to their peers	Students with SEND/ALN have access to any additional support/resources needed to participate in all practical activities in science lessons
Strongly agree	4 (3%)	5 (4%)
Somewhat agree	45 (35%)	49 (38%)
Neither agree nor disagree	11 (9%)	14 (11%)
Somewhat disagree	46 (36%)	39 (30%)
Strongly disagree	22 (17%)	19 (15%)
Don't know / Not sure	1 (1%)	3 (2%)
Column n	129	129

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 129

For your school/department, what would improve the equitable experience of students with SEND/ALN in science lessons?

	%
More teaching assistant support	146 (86%)
Specialist practical equipment (materials, ear defenders, quiet classroom areas etc)	62 (37%)
More training on specific strategies for SEND/ALN students	84 (50%)
Teaching resources that are accessible for SEND/ALN learners	102 (60%)
Specialist technology	47 (28%)
Other	11 (7%)
Column n	169

Filter: State funded secondary schools; Unweighted; base n = 169

Section A

About your school

Summary

Respondents **in Wales** reported higher levels of understaffing for certain elements of the science teaching workforce compared to the rest of the UK and ROI. The understaffing of teaching assistants and science technicians is particularly pronounced, at 77% and 55% respectively. The understaffing of chemistry teachers is second highest across the nations, with 40% of schools reporting being understaffed.

Equivalent data is available for [England](#), [Northern Ireland](#), [Scotland](#) and [Republic of Ireland](#).

Which of the following best describes your current job role?

	%
Head of department/principal teacher – Science	11 (15%)
Head of department/principal teacher – Chemistry	7 (10%)
Head of department/principal teacher – Physics	4 (6%)
Head of department/principal teacher – Biology	4 (6%)
Classroom teacher of science, biology, chemistry and/or physics	8 (11%)
FE lecturer of science, biology, chemistry and/or physics	0 (0%)
Science technician	34 (47%)
Trainee / student science teacher	0 (0%)
Other staff member with science teaching responsibilities, e.g. SLT	4 (6%)
Column n	72

Filter: State funded secondary schools; Unweighted; base n = 72

Which of the following best describes the school where you work?

	%
Local authority, Community, Foundation, or ETB	71 (99%)
Academy (standalone)	0 (0%)
Academy (in a multi-academy trust)	0 (0%)
Grammar school/selective school (any type of state school with selective admissions)	1 (1%)
Column n	72

Filter: State funded secondary schools; Unweighted; base n = 72

Please describe the staffing at your school or college in each of the following areas. By understaffed, we mean that you do not feel that the current provision is sufficient for your school.

	Biology teachers	Chemistry teachers	Physics teachers	Science technicians	Teaching assistants
Overstaffed	10 (14%)	2 (3%)	1 (1%)	0 (0%)	1 (1%)
Adequately staffed	48 (67%)	40 (56%)	37 (51%)	28 (39%)	6 (9%)
Understaffed	13 (18%)	29 (40%)	34 (47%)	39 (55%)	53 (77%)
Don't know / Not sure	1 (1%)	1 (1%)	0 (0%)	4 (6%)	9 (13%)
Column n	72	72	72	71	69

Filter: Not select 'Not applicable' + State funded secondary schools; Unweighted; base n = 69-72

Which of the following are significantly impacted as a result of understaffing of biology, chemistry, and/or physics teachers?

	%
Learning	36 (71%)
Behaviour	31 (61%)
Student motivation	32 (63%)
GCSE subject choices	14 (27%)
HE progression routes	14 (27%)
Other	7 (14%)
Column n	51

Filter: Selected 'Understaffed' only + State funded secondary schools; Unweighted; base n = 51

Section B

About your role

Summary

Comparably to England, technicians broadly report good levels of confidence in supporting the three sciences across the three key stages. Teachers similarly feel confident in teaching the three sciences. Confidence drops at key stage 5, but less so compared to teachers in England (for chemistry, the number of teachers feeling somewhat or very confident in teaching KS4 is 88%, but for KS5 this drops to 78%).

Job satisfaction is slightly higher for technicians than for teachers, but lower overall compared to England. The wellbeing of staff is comparable to the other nations.

For which of these subjects, if any, would you define yourself as a specialist?

	%
Biology	12 (32%)
Chemistry	23 (61%)
Physics	13 (34%)
General Science	5 (13%)
None of the above	0 (0%)
Don't know / Not sure	0 (0%)
Column n	38

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 38

Including the current academic year, how many years have you been teaching the sciences? Please do not include your training year.

	%
1-2 YRS	0 (0%)
3-4 YRS	1 (3%)
5-9 YRS	7 (18%)
10+ YRS	76 (79%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	38

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 38

Including the current academic year, how many years have you been working as a science technician?

	%
1-2 YRS	8 (24%)
3-4 YRS	4 (12%)
5-9 YRS	8 (24%)
10+ YRS	14 (41%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	34

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 34

For each of the key stages, how confident are you in supporting biology, chemistry and/or physics? If you don't support the particular subject content at a key stage, select 'Do not support'.

	Biology at KS3	Biology at KS4	Biology at KS5	Chemistry at KS3	Chemistry at KS4	Chemistry at KS5	Physics at KS3	Physics at KS4	Physics at KS5
Very unconfident	3 (9%)	2 (6%)	1 (4%)	3 (9%)	2 (6%)	1 (4%)	3 (9%)	2 (6%)	1 (5%)
Somewhat unconfident	0 (0%)	0 (0%)	2 (9%)	0 (0%)	0 (0%)	1 (4%)	3 (9%)	5 (16%)	6 (27%)
Neither confident nor un-confident	0 (0%)	1 (3%)	1 (4%)	0 (0%)	2 (6%)	1 (4%)	1 (3%)	3 (10%)	4 (18%)
Somewhat confident	7 (21%)	9 (28%)	9 (39%)	6 (18%)	12 (39%)	12 (52%)	10 (31%)	11 (35%)	9 (41%)
Very confident	23 (70%)	20 (63%)	10 (43%)	24 (73%)	15 (48%)	8 (35%)	15 (47%)	10 (32%)	2 (9%)
Column n	33	32	23*	33	31	23*	32	31	22*

Filter: Technician, Wales only + not selected 'Do not support' + State funded secondary schools; Unweighted; base n = 22-33. *Small sample size.

For each of the levels that you teach, how confident are you in teaching biology, chemistry and/or physics subject content to these levels? If you don't teach the particular subject content to a level, either as a single subject or as part of a combined science course, select 'Do not teach'.

	Biology at KS3	Biology at KS4	Biology at KS5	Chemistry at KS3	Chemistry at KS4	Chemistry at KS5	Physics at KS3	Physics at KS4	Physics at KS5
Very unconfident	0 (0%)	1 (4%)	2 (11%)	0 (0%)	0 (0%)	2 (9%)	0 (0%)	0 (0%)	5 (23%)
Somewhat unconfident	0 (0%)	2 (7%)	1 (6%)	0 (0%)	1 (3%)	3 (14%)	0 (0%)	1 (3%)	5 (23%)
Neither confident nor unconfident	1 (3%)	2 (7%)	2 (11%)	0 (0%)	3 (9%)	0 (0%)	0 (0%)	3 (9%)	1 (5%)
Somewhat confident	7 (20%)	5 (18%)	5 (28%)	3 (8%)	4 (13%)	5 (23%)	8 (23%)	12 (36%)	0 (0%)
Very confident	27 (77%)	18 (64%)	8 (44%)	33 (92%)	24 (75%)	12 (55%)	27 (77%)	17 (52%)	11 (50%)
Do not teach	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	35	28*	18*	36	32	22*	35	33	22*

Filter: Teacher, Wales only + not selected 'Do not teach' + State funded secondary schools; Unweighted; base n = 18-36. *Small sample size.

How many hours per week were/are/will be allocated at GCSE for:

Average (Mean)	2023/24	2024/25	2025/26
Foundation / Entry level science	0.57	0.45	0.31
Single applied science	1.05	1.03	1.00
GCSE Science (Double Award)	5.90	6.01	6.00
GCSE Applied Science (Double Award)	2.44	2.18	2.25
Triple science (please combine hours for all three subjects)	7.59	7.19	6.32
English (please combine the hours for Language and Literature)	6.07	6.11	6.14
Maths (please combine mathematics and numeracy)	6.07	6.10	6.14
Column n	38	38	38

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 38

In your school, are the sciences commonly taught in English, Welsh, or both?

	Biology at KS3	Biology at KS4	Biology at KS5 / post-16	Chemistry at KS3	Chemistry at KS4	Chemistry at KS5 / post-16	Physics at KS3	Physics at KS4	Physics at KS5 / post-16
English	32 (84%)	33 (87%)	33 (87%)	33 (87%)	32 (84%)	33 (87%)	32 (84%)	33 (87%)	33 (87%)
Welsh	4 (11%)	4 (11%)	4 (11%)	4 (11%)	5 (13%)	4 (11%)	4 (11%)	3 (8%)	4 (11%)
Both	2 (5%)	1 (3%)	1 (3%)	1 (3%)	1 (3%)	1 (3%)	2 (5%)	2 (5%)	1 (3%)
Column n	38	38	38	38	38	38	38	38	38

Filter: Teacher, Wales only + State funded secondary schools; Unweighted; base n = 38

How confident do you feel teaching the sciences in Welsh?

	Biology at KS3	Biology at KS4	Biology at KS5	Chemistry at KS3	Chemistry at KS4	Chemistry at KS5	Physics at KS3	Physics at KS4	Physics at KS5
Very confident	3 (50%)	2 (50%)	2 (67%)	5 (100%)	4 (80%)	3 (75%)	5 (100%)	5 (100%)	3 (75%)
Somewhat confident	2 (33%)	1 (25%)	0 (0%)	0 (0%)	1 (20%)	1 (25%)	0 (0%)	0 (0%)	0 (0%)
Neither confident nor unconfident	0 (0%)	1 (25%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (25%)
Somewhat unconfident	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Very unconfident	1 (17%)	0 (0%)	1 (33%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Don't know / Not sure	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	6*	4*	3*	5*	5*	4*	5*	5*	4*

Filter: Teacher, Wales only + Subject taught in Welsh + State funded secondary schools; Unweighted; base n = 38.

*Small sample size.

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a teacher?

	%
Mean	5.8
Column n	38

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 38

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a technician?

	%
Mean	6.4
Column n	34

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 34

Teachers in Wales anticipate a reduction in the number of hours their school will allocate for triple science in 2025/26. It is unclear what is the cause for this drop, as the new science pathways at GCSE will be first taught in September 2026. There is also not a corresponding increase in anticipated hours for English and maths in the same time period.

The next question is about your mental well-being and will help us to better understand the well-being of teachers and technicians working in education. This question is optional and can be skipped by pressing [next].

Teachers

	%
High wellbeing (28 or greater)	3 (8%)
Moderate wellbeing (20 - 27)	22 (59%)
Low wellbeing (Less than 20)	12 (32%)
Average (Mean)	21.2
Column n	37

Filter: Teachers + State funded secondary schools; Unweighted; base n = 37

Technicians

	%
High wellbeing (28 or greater)	4 (12%)
Moderate wellbeing (20 - 27)	23 (68%)
Low wellbeing (Less than 20)	7 (21%)
Average (Mean)	22.7
Column n	34

Filter: Technicians + State funded secondary schools; Unweighted; base n = 34

Section C

Retention

Summary

When asked how long they intend to stay in their current school, 5% of teacher respondents and 12% of technicians in Wales selected only to the end of the current academic year. The reasons given for leaving are available below, but sample size is too small for comment.

How long do you intend to stay at your current school?

Teachers

	%
Up to the end of the current academic year	2 (5%)
Up to the end of the 25/26 academic year	1 (3%)
Up to the end of the 26/27 academic year	1 (3%)
Into the 27/28 academic year or beyond	14 (37%)
Don't know / Not sure	18 (47%)
Prefer not to say	2 (5%)
Column n	38

Filter Teachers + State funded secondary schools; Unweighted; base n = 38

How long do you intend to stay at your current school?

Technicians

	%
Up to the end of the current academic year	4 (12%)
Up to the end of the 25/26 academic year	0 (0%)
Up to the end of the 26/27 academic year	3 (9%)
Into the 27/28 academic year or beyond	7 (21%)
Don't know / Not sure	20 (59%)
Prefer not to say	0 (0%)
Column n	34

Filter Technicians + State funded secondary schools; Unweighted; base n = 34

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

Teachers

	%
Retirement	0 (0%)
Move to a similar role at a different state school	0 (0%)
Move to a different state school for promotion	1 (25%)
Move to a similar role at a private/independent school	0 (0%)
Move to a private/independent school for promotion	0 (0%)
Move into teaching at higher education	0 (0%)
Move into another role in education (not teaching)	1 (25%)
I want to do something outside of education / career change	1 (25%)
Have a career break	0 (0%)
Other	0 (0%)
Don't know / Not sure	1 (25%)
Column n	4*

Filter Teachers + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 4.

*Small sample size.

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

Technicians

	%
Retirement	1 (14%)
Move to a similar role at a different state school	0 (0%)
Move to a different state school for promotion	0 (0%)
Move to a similar role at a private/independent school	0 (0%)
Move to a private/independent school for promotion	0 (0%)
Move into another role in education	1 (14%)
Move to a technician role in HE	1 (14%)
Move to a technician role in FE	0 (0%)
Start training to be a teacher	0 (0%)
I want to do something outside of education / career change	0 (0%)
Other	3 (43%)
Don't know / Not sure	1 (14%)
Column n	7*

Filter Technicians + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 7.

*Small sample size.

What are your reasons for leaving your current school?

Teachers

	%
Workload is too high / Lack of work life balance	4 (100%)
High levels of stress / exhaustion	2 (50%)
Having to teach outside specialism	0 (0%)
Low pay	3 (75%)
Lack of progression opportunities	2 (50%)
Lack of respect / don't feel appreciated	4 (100%)
Lack of recognition	3 (75%)
Poor student behaviour	4 (100%)
Issues with management	2 (50%)
Want to try something different	1 (25%)
Other	0 (0%)
Don't know / not sure	0 (0%)
Column n	4*

Filter Teachers + not retiring + State funded secondary schools; Unweighted; base n = 4. *Small sample size.

What are your reasons for leaving your current school?

Technicians

	%
Workload is too high / Lack of work life balance	4 (67%)
High levels of stress / exhaustion	5 (83%)
Lack of full-time contract (e.g. term time only)	3 (50%)
Low pay	4 (67%)
Lack of progression opportunities	5 (83%)
Lack of job security (e.g. temporary contracts)	2 (33%)
Lack of respect / don't feel appreciated	3 (50%)
Lack of recognition	5 (83%)
Having to perform tasks outside my role	2 (33%)
Poor student behaviour	2 (33%)
Issues with management	3 (50%)
Want to try something different	1 (17%)
Other	2 (33%)
Don't know / not sure	0 (0%)
Column n	6*

Filter Technicians + not retiring + State funded secondary schools; Unweighted; base n = 6. *Small sample size.

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a teacher at secondary school? Please select up to 5 factors from the following list that would be most influential.

Teachers

	%
More balanced / reduced workload	1 (33%)
Better work/life balance	3 (100%)
Having the option to work part-time	0 (0%)
Having the option to work remotely/work from home where feasible	0 (0%)
Increased pay	3 (100%)
Only expected to teach content you consider yourself a specialist in	0 (0%)
More opportunity for progression	2 (67%)
More respect / appreciation	1 (33%)
More recognition of work performance	1 (33%)
More support with student behaviour	1 (33%)
Less emphasis on exam results	0 (0%)
Less pressure regarding assessed school performance and inspections	0 (0%)
More support from parents	0 (0%)
More support from senior management team	0 (0%)
Increase funding for classroom/school resources	2 (67%)
Timetabled / regular professional development	1 (33%)
Being able to find a position in a different school	0 (0%)
Other	0 (0%)
There isn't anything that could convince me	0 (0%)
Column n	3*

Filter Teachers + moving out of Secondary teaching + State funded secondary schools; Unweighted; base n = 3.

*Small sample size.

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a technician at secondary school? Please select up to 5 factors from the following list that would be most influential.

Technicians

	%
More balanced / reduced workload	4 (67%)
Better work/life balance	2 (33%)
Better job security	2 (33%)
Having the option to work part-time	0 (0%)
Having the option to work remotely/work from home where feasible	2 (33%)
Increased pay	6 (100%)
More opportunity for progression	5 (83%)
More respect / appreciation	5 (83%)
More recognition of work performance	5 (83%)
More support with student behaviour	1 (17%)
More support from senior management team	2 (33%)
Increase funding for classroom/school resources	2 (33%)
Timetabled / regular professional development	4 (67%)
Being able to find a position in a different school	1 (17%)
Other	1 (17%)
There isn't anything that could convince me	0 (0%)
Column n	6*

Filter Technicians + moving out of Secondary education + State funded secondary schools; Unweighted; base n = 6. *Small sample size.

Section D

Challenges & barriers

Summary

Teachers reported several challenges at classroom level. Student attendance was the most cited challenge (79%), followed by challenging student behaviour (76%) and not enough time outside of the classroom (74%). Both student attendance and challenging student behaviour were higher than all other nations except for Scotland where levels are comparably high.

As reported in our headlines, funding is by far the largest challenge identified at school level, with staff reporting that more funding would help address these challenges. For mainstream schools the funding challenge reported is significantly higher in Wales compared to the other nations.

Respondents identified similar themes when considering barriers to running practical work in their schools. Cost of consumables and chemicals (64%), insufficient time for practical work to be taught alongside theory (60%) and challenging student behaviour (58%) were the highest cited barriers.

Which of the following present challenges to your classroom teaching in science?

	%
Limited numeracy skills of students	26 (68%)
Limited literacy skills of students	25 (66%)
Insufficient classroom support, e.g. no teaching assistants	19 (50%)
Student attendance	30 (79%)
Challenging student behaviour	29 (76%)
Inadequate teaching resources (lesson plans / scheme of work)	9 (24%)
No technician/not enough technicians	11 (29%)
Teaching outside of specialism	4 (11%)
Lack of confidence in the subject area	1 (3%)
Insufficient lab access	2 (5%)
Insufficient classroom equipment	10 (26%)
Not enough classroom time to cover the curriculum content	21 (55%)
Not enough time outside of classroom (for planning/marking and/or assessment)	28 (74%)
Other	4 (11%)
There are no challenges	1 (3%)
Column n	38

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 38

What challenges does your school face?

	%
Insufficient funding	57 (79%)
High staff turnover	16 (22%)
Insufficient staff non-contact time	28 (39%)
Lack of support to students from parent/family/guardian	41 (57%)
Poor pupil attendance	41 (57%)
Understaffing of teaching staff	22 (31%)
Understaffing of classroom support staff	38 (53%)
High staff absence	26 (36%)
Insufficient support from leadership	37 (51%)
Negative working environment	27 (38%)
Lack of collaboration/teamwork amongst staff	18 (25%)
Not enough support for inexperienced teachers	21 (29%)
Other	13 (18%)
There are no challenges	2 (3%)
Column n	72

Filter: State funded secondary schools; Unweighted; base n = 72

What support do you need to address these challenges, either in the classroom and/or across the school?

	%
Consistent policies including behaviour management, attendance and learning and teaching	39 (54%)
More funding	52 (72%)
More non-contact time (for planning, PD, practising practical work)	47 (65%)
More classroom support staff	34 (47%)
Support from leadership	40 (56%)
Greater access to subject specific professional development	26 (36%)
Greater collaboration with colleagues	21 (29%)
Protected non-contact time	28 (39%)
Leadership led cultural shift	34 (47%)
Other	9 (13%)
Don't require support	1 (1%)
Column n	72

Filter: State funded secondary schools; Unweighted; base n = 72

Thinking about the last 12 months, with each of your KS3 / Third Level / Junior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	13 (36%)	13 (36%)	6 (17%)
At least once a fortnight	12 (33%)	13 (36%)	9 (25%)
At least once a month	10 (28%)	8 (22%)	4 (11%)
Once every couple of months	1 (3%)	2 (6%)	8 (22%)
Less often	0 (0%)	0 (0%)	6 (17%)
Never	0 (0%)	0 (0%)	3 (8%)
Don't know	0 (0%)	0 (0%)	0 (0%)
Column n	36	36	36

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 36

Thinking about the last 12 months, with each of your GCSE / National 5/ Transition Year classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	5 (13%)	6 (16%)	4 (11%)
At least once a fortnight	11 (29%)	13 (34%)	5 (13%)
At least once a month	15 (39%)	12 (32%)	10 (26%)
Once every couple of months	5 (13%)	4 (11%)	6 (16%)
Less often	2 (5%)	2 (5%)	10 (26%)
Never	0 (0%)	0 (0%)	3 (8%)
Don't know	0 (0%)	1 (3%)	0 (0%)
Column n	38	38	38

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 38

Thinking about the last 12 months, with each of your A-Level / Higher/ Senior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	2 (8%)	2 (8%)	2 (8%)
At least once a fortnight	8 (32%)	12 (48%)	4 (16%)
At least once a month	13 (52%)	4 (16%)	6 (24%)
Once every couple of months	1 (4%)	2 (8%)	5 (20%)
Less often	1 (4%)	5 (20%)	4 (16%)
Never	0 (0%)	0 (0%)	3 (12%)
Don't know	0 (0%)	0 (0%)	1 (4%)
Column n	25	25	25

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 25

What are the barriers you face to running practical work in your school?

	%
Understaffing of science technicians	30 (42%)
Insufficient time for practical to be taught alongside theory	43 (60%)
Lack of equipment	32 (44%)
No time for training/practicing	25 (35%)
Health and safety concerns	18 (25%)
Challenging student behaviour	42 (58%)
Cost of consumables and chemicals	46 (64%)
Lack of confidence in delivering practical sessions	4 (6%)
Insufficient lab access	12 (17%)
Unsuitable labs	15 (21%)
Other	5 (7%)
No barriers	1 (1%)
Column n	72

Filter: State funded secondary schools; Unweighted; base n = 72

Section E

Professional development

Summary

Over the period of February 2024 to February 2025, 50% of those teaching chemistry did not access any subject specific professional development (compared to 75% of those teaching biology and 58% of those teaching physics). 38% of science technicians did not access any role-specific professional development in the same time period.

57% of those teaching chemistry felt the amount of time they undertook subject-specific professional development was insufficient, or somewhat insufficient. Teachers reported that a lack of funding for cover teachers (76%), course cost & expenses to attend (71%) and having to attend courses in their own time (58%) were the biggest barriers to accessing subject-specific PD. The top barriers to technicians accessing role-specific PD included course cost & expenses to attend (82%), prohibitive travel time (71%), and the availability of courses (65%).

Thinking about the last 12 months (since February 2024), please select the number of hours of subject specific professional development that you received for each of the following subjects: If you didn't teach this subject in the last 12 months, please select 'Not applicable - don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
0 hrs - Didn't access any professional development	18 (75%)	14 (50%)	15 (58%)	16 (55%)	9 (41%)
Up to 5 hours	4 (17%)	6 (21%)	4 (15%)	9 (31%)	4 (18%)
5 - 9 hours	1 (4%)	3 (11%)	2 (8%)	4 (14%)	0 (0%)
10 – 14 hours	0 (0%)	1 (4%)	2 (8%)	0 (0%)	1 (5%)
15 – 19 hours	0 (0%)	1 (4%)	2 (8%)	0 (0%)	3 (14%)
20 - 24 hours	0 (0%)	0 (0%)	0 (0%)	0 (0%)	3 (14%)
25 - 29 hours	0 (0%)	0 (0%)	0 (0%)	0 (0%)	2 (9%)
30 - 34 hours	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
35+ hours	0 (0%)	2 (7%)	0 (0%)	0 (0%)	0 (0%)
Don't know	1 (4%)	1 (4%)	1 (4%)	0 (0%)	1 (5%)
Column n	24*	28*	26*	29*	22*

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 22-29. *Small sample size.

Thinking about the last 12 months (since February 2024), please select the number of hours of role-specific professional development that you received:

SSPD	%
0 hrs - Didn't access any professional development	13 (38%)
Up to 5 hours	5 (15%)
5 - 9 hours	6 (18%)
10 – 14 hours	3 (9%)
15 – 19 hours	1 (3%)
20 - 24 hours	2 (6%)
25 - 29 hours	0 (0%)
30 - 34 hours	0 (0%)
35+ hours	1 (3%)
Don't know	3 (9%)
Column n	34

Filter: Technicians only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 34

Thinking again about the last 12 months (since February 2024). Was the amount of time that you undertook subject specific professional development for each subject...? If you didn't teach this subject in the last academic year, please select 'Not applicable – don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
Insufficient	16 (62%)	11 (37%)	11 (39%)	15 (52%)	7 (39%)
Somewhat insufficient	4 (15%)	6 (20%)	7 (25%)	5 (17%)	2 (11%)
Neither sufficient nor insufficient	4 (15%)	8 (27%)	6 (21%)	6 (21%)	5 (28%)
Somewhat sufficient	1 (4%)	2 (7%)	1 (4%)	1 (3%)	1 (6%)
Sufficient	1 (4%)	1 (3%)	3 (11%)	1 (3%)	3 (17%)
Don't know / Can't remember	0 (0%)	2 (7%)	0 (0%)	1 (3%)	0 (0%)
Not applicable – don't teach this subject	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	26*	30	28*	29*	18*

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 18-30. *Small sample size.

Thinking again about the last 12 months since February 2024. Was the amount of time that you undertook role-specific professional development...?

	%
Insufficient	18 (53%)
Somewhat insufficient	7 (21%)
Neither sufficient nor insufficient	1 (3%)
Somewhat sufficient	2 (6%)
Sufficient	4 (12%)
Don't know / Can't remember	2 (6%)
Column n	34

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 34

Which of the following barriers apply to your own experience of accessing subject specific professional development?

	%
Lack of funding for cover teachers	29 (76%)
Lack of available cover teachers	20 (53%)
Course cost & expenses to attend courses	27 (71%)
School policy restricts the type of courses I can attend	12 (32%)
Having to attend PD courses/training in my own time	22 (58%)
Availability of courses	15 (39%)
Lack of knowledge about opportunities	11 (29%)
Not having access to the required technology/software/learning platforms, etc.	3 (8%)
Prohibitive travel time / distance	16 (42%)
Other	2 (5%)
There are no barriers	0 (0%)
Column n	38

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 38

Which of the following barriers apply to your own experience of accessing role-specific professional development?

	%
Lack of funding for cover staff	8 (24%)
Lack of available cover staff	10 (29%)
Course cost & expenses to attend courses	28 (82%)
School policy restricts the type of courses I can attend	5 (15%)
Having to attend PD courses/training in my own time	2 (6%)
Availability of courses	22 (65%)
Lack of knowledge about opportunities	9 (26%)
Not having access to the required technology/software/learning platforms, etc.	4 (12%)
Prohibitive travel time / distance	24 (71%)
There are no barriers	0 (0%)
Column n	34

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 34

Why is subject-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	24 (65%)
It helps me to develop my expertise in areas I haven't taught before	16 (43%)
It gives me new ideas to improve my teaching based on the latest education research	33 (89%)
It increases my confidence in using practical activities in my lessons	13 (35%)
It helps me to develop teaching approaches to meet specific learner needs	19 (51%)
It helps me contextualise the curriculum	19 (51%)
It allows me to share ideas and learn from other teachers outside of my classroom	24 (65%)
It increases my enthusiasm for my subject	20 (54%)
Other, please elaborate	1 (3%)
It's not important to me	0 (0%)
Column n	37

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 37

Why is role-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	28 (82%)
It helps me to develop my expertise in health and safety and prep room management	27 (79%)
It gives me new ideas to improve practical activities	29 (85%)
It increases my confidence in my role	24 (71%)
It gives me a deeper knowledge of how practical activities can be used to support the delivery of the curriculum	23 (68%)
It allows me to share ideas and learn from other technicians outside of my school	21 (62%)
It increases my enthusiasm for my job	26 (76%)
Other, please elaborate	3 (9%)
Column n	34

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 34

Aside from statutory PD e.g. safeguarding, what are your school's priorities for CPD?

	%
Developing the leadership talent pipeline	7 (10%)
Developing leadership skills of those in post	9 (13%)
Improving teacher subject expertise	4 (6%)
Prioritising whole school PD based on the school improvement plan	31 (44%)
Developing teaching approaches to meet specific learner needs	16 (23%)
Contextualising subjects	2 (3%)
Other, please elaborate	6 (8%)
Don't know	30 (42%)
Column n	71

Filter: State funded secondary schools; Unweighted; base n = 71

Section F

Vocational pathways

Summary

Welsh teachers lack confidence in providing information on technical and vocational routes into scientific careers, with only 43% of respondents feeling somewhat or very confident to do so.

We asked teachers about their awareness of and advocacy for different academic and vocational science pathways. There are lower levels of awareness of apprenticeship routes in Wales compared to other comparable nations. For example, there are far lower levels of advocacy for degree apprenticeships compared to England (30% of teachers in Wales are aware of and advocate for this route, compared to 60% in England). The highest levels of teacher advocacy are for traditional academic routes in the sciences (A levels, undergraduate degrees).

How confident do you feel about the following areas?

	Linking the curriculum to real-life contexts	Linking the curriculum to scientific careers	Providing information on academic routes into scientific careers	Providing information on technical/vocational routes into scientific careers
Very unconfident	3 (8%)	2 (5%)	2 (5%)	4 (11%)
Somewhat unconfident	1 (3%)	3 (8%)	5 (14%)	11 (30%)
Neither confident nor unconfident	4 (11%)	5 (14%)	4 (11%)	6 (16%)
Somewhat confident	19 (51%)	19 (51%)	18 (49%)	14 (38%)
Very confident	10 (27%)	8 (22%)	8 (22%)	2 (5%)
Don't know / Not sure	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Not applicable / Don't include in my teaching	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	37	37	37	37

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 37

For each of the following academic and vocational science pathways, please tell us which you are aware of and advocate to your students.

	A levels	BTEC Nationals	BTEC Apprenticeships	Foundation Apprenticeship
Not aware	0 (0%)	6 (16%)	14 (38%)	14 (38%)
Aware but don't advocate	3 (8%)	16 (43%)	9 (24%)	9 (24%)
Aware and advocate to my students	33 (89%)	10 (27%)	7 (19%)	7 (19%)
Don't know / Not sure	1 (3%)	5 (14%)	7 (19%)	7 (19%)
Column n	37	37	37	37

	Apprenticeship	Higher Apprenticeship	Degree Apprenticeship	Foundation degree	Undergraduate degree
Not aware	5 (14%)	12 (32%)	12 (32%)	6 (16%)	1 (3%)
Aware but don't advocate	7 (19%)	13 (35%)	9 (24%)	13 (35%)	5 (14%)
Aware and advocate to my students	21 (57%)	7 (19%)	11 (30%)	14 (38%)	30 (81%)
Don't know / Not sure	4 (11%)	5 (14%)	5 (14%)	4 (11%)	1 (3%)
Column n	37	37	37	37	37

Filter: Teachers, Wales only + State funded secondary schools; Unweighted; base n = 37

What are the barriers, if any, that prevent you from advocating for vocational pathways to your students?

	%
Lack of detailed knowledge about the pathways	2 (50%)
Lack of funding	0 (0%)
Lack of local availability of courses	0 (0%)
Lack of local availability of placements	0 (0%)
School is focused on academic pathways	0 (0%)
Don't know / Not sure	1 (25%)
Other	1 (25%)
There are no barriers	0 (0%)
Column n	4*

Filter: Teachers, Not advocated to any vocational pathways only + State funded secondary schools; Unweighted; base n = 4. *Small sample size.

What are the barriers for you working with external organisations to deliver outreach activities to your students?

	%
Limited time	32 (89%)
Funding	22 (61%)
Student behaviour	7 (19%)
Lack of support and encouragement from senior leaders	7 (19%)
Lack of interest / engagement from local organisations, companies etc	8 (22%)
Safeguarding concerns	1 (3%)
Lack of awareness of opportunities	15 (42%)
I don't see the benefits for students	1 (3%)
Lack of my time to organise	26 (72%)
Lack of time within the school day to enable this	24 (67%)
Other priorities/pressures (eg Ofsted)	7 (19%)
Lack of interest / engagement from local organisations, companies etc	0 (0%)
Column n	36

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 36

Section G

Digital technology

Summary

Teachers across the nations appear to have comparable levels of access to digital technology.

80% of teachers in Wales agree or strongly agree that they can use digital technology when needed and 53% agree or strongly agree that they are confident in using digital tools.

29% of teachers never use digital tools in their science lessons. Use of digital tools and teacher confidence in doing so is lower for teachers in Wales compared to the other nations.

Have you ever used AI within your role?

	%
Yes	31 (44%)
No	39 (56%)
Column n	70

Filter: State funded secondary schools; Unweighted; base n = 70

Which of the following AI-powered tools or technologies (if any) have you used or experimented with in your teaching practice?

	%
Grammarly	9 (29%)
magic.ai	0 (0%)
Teachermatic	0 (0%)
Teachmateai	4 (13%)
Riffbot	0 (0%)
Revisely	0 (0%)
Copilot	7 (23%)
ChatGPT	29 (94%)
DALL-E 3	3 (10%)
Oak Aila lesson planning tool	3 (10%)
Google Bard	3 (10%)
Other, please provide	9 (29%)
Column n	31

Filter: Have used AI + State funded secondary schools; Unweighted; base n = 31

To what extent do you agree with the following statement? I am able to use digital technology (e.g. computer room / tablets / laptops / WiFi) when needed.

	%
Strongly agree	30 (43%)
Agree	26 (37%)
Neither agree nor disagree	8 (11%)
Disagree	4 (6%)
Strongly disagree	1 (1%)
Don't know / Not sure	1 (1%)
Column n	70

Filter: State funded secondary schools; Unweighted; base n = 70

How often does your department use digital tools in your lessons, e.g. light gates, digital microscopes?

	%
Every week	8 (11%)
Once a topic (where relevant)	20 (29%)
Once a term	19 (27%)
Never	20 (29%)
Don't know / Not sure	3 (4%)
Column n	70

Filter: State funded secondary schools; Unweighted; base n = 70

To what extent do you agree with the following statement? I am confident in using digital tools in my teaching.

	%
Strongly agree	10 (28%)
Agree	9 (25%)
Neither agree nor disagree	6 (17%)
Disagree	7 (19%)
Strongly disagree	2 (6%)
Don't know / Not sure	1 (3%)
Column n	36

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 36

Section H

Additional support and resources

Summary

47% of teachers somewhat or strongly agree that students with SEND/ALN have access to the support and resources needed to engage in science lessons comparably with their peers. Similarly, 44% of teachers somewhat or strongly agree that students with SEND/ALN have access to support and resources needed to participate in all practical activities in science lessons.

81% of respondents felt that more teaching assistant support would improve the equitable experience of students with SEND/ALN in science lessons.

How far do you agree with the following statements?

	Students with SEND/ALN have access to any additional support/resources needed to engage in science lessons comparably to their peers	Students with SEND/ALN have access to any additional support/resources needed to participate in all practical activities in science lessons
Strongly agree	1 (3%)	4 (11%)
Somewhat agree	16 (44%)	12 (33%)
Neither agree nor disagree	10 (28%)	9 (25%)
Somewhat disagree	4 (11%)	6 (17%)
Strongly disagree	3 (8%)	2 (6%)
Don't know / Not sure	2 (6%)	3 (8%)
Column n	36	36

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 36

For your school/department, what would improve the equitable experience of students with SEND/ALN in science lessons?

	%
More teaching assistant support	57 (81%)
Specialist practical equipment (materials, ear defenders, quiet classroom areas etc)	30 (43%)
More training on specific strategies for SEND/ALN students	31 (44%)
Teaching resources that are accessible for SEND/ALN learners	35 (50%)
Specialist technology	16 (23%)
Other	9 (13%)
Column n	70

Filter: State funded secondary schools; Unweighted; base n = 70

Section A

About your school

Summary

Respondents **in Northern Ireland** reported the lowest levels of teaching assistant understaffing compared to the rest of the UK and ROI, with only 29% of staff feeling their current provision is not sufficient for their school. However, respondents in Northern Ireland also report the highest levels of chemistry teacher understaffing among all nations at 48%.

Equivalent data is available for [Wales](#), [England](#), [Scotland](#) and [Republic of Ireland](#).

Which of the following best describes your current job role?

	%
Head of department/principal teacher – Science	13 (21%)
Head of department/principal teacher – Chemistry	3 (5%)
Head of department/principal teacher – Physics	2 (3%)
Head of department/principal teacher – Biology	3 (5%)
Classroom teacher of science, biology, chemistry and/or physics	24 (38%)
FE lecturer of science, biology, chemistry and/or physics	0 (0%)
Science technician	16 (25%)
Trainee / student science teacher	0 (0%)
Other staff member with science teaching responsibilities, e.g. SLT	2 (3%)
Column n	63

Filter: State funded secondary schools; Unweighted; base n = 63

Which of the following best describes the school where you work?

	%
Local authority, Community, Foundation, or ETB	29 (46%)
Academy (standalone)	0 (0%)
Academy (in a multi-academy trust)	0 (0%)
Grammar school/selective school (any type of state school with selective admissions)	34 (54%)
Column n	63

Filter: State funded secondary schools; Unweighted; base n = 63

Please describe the staffing at your school or college in each of the following areas. By understaffed, we mean that you do not feel that the current provision is sufficient for your school.

	Biology teachers	Chemistry teachers	Physics teachers	Science technicians	Teaching assistants
Overstaffed	4 (6%)	0 (0%)	0 (0%)	0 (0%)	4 (8%)
Adequately staffed	50 (79%)	32 (51%)	32 (51%)	37 (59%)	20 (42%)
Understaffed	8 (13%)	30 (48%)	31 (49%)	26 (41%)	14 (29%)
Don't know / Not sure	1 (2%)	1 (2%)	0 (0%)	0 (0%)	10 (21%)
Column n	63	63	63	63	48

Filter: Not select 'Not applicable' + State funded secondary schools; Unweighted; base n = 48-63

Which of the following are significantly impacted as a result of understaffing of biology, chemistry, and/or physics teachers?

	%
Learning	26 (67%)
Behaviour	11 (28%)
Student motivation	16 (41%)
GCSE subject choices	19 (49%)
HE progression routes	8 (21%)
Other	7 (18%)
Column n	39

Filter: Selected 'Understaffed' only + State funded secondary schools; Unweighted; base n = 39

Section B

About your role

Summary

Technicians broadly report good levels of confidence in supporting the three sciences across the three key stages. Teachers similarly feel confident in teaching the three sciences, with confidence dropping at key stage 5 (for chemistry, the number of teachers feeling somewhat or very confident in teaching KS4 is 83%, but for KS5 this drops to 71%).

Job satisfaction is slightly higher for technicians than for teachers in Northern Ireland, as is wellbeing. Job satisfaction for staff is highest here compared to the other nations.

For which of these subjects, if any, would you define yourself as a specialist?

	%
Biology	16 (34%)
Chemistry	22 (47%)
Physics	14 (30%)
General Science	10 (21%)
None of the above	1 (2%)
Don't know / Not sure	0 (0%)
Column n	47

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 47

Including the current academic year, how many years have you been teaching the sciences? Please do not include your training year.

	%
1-2 YRS	3 (6%)
3-4 YRS	1 (2%)
5-9 YRS	4 (9%)
10+ YRS	94 (83%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	47

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 47

Including the current academic year, how many years have you been working as a science technician?

	%
1-2 YRS	0 (0%)
3-4 YRS	1 (6%)
5-9 YRS	3 (19%)
10+ YRS	12 (75%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	16*

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 16. *Small sample size.

For each of the key stages, how confident are you in supporting biology, chemistry and/or physics? If you don't support the particular subject content at a key stage, select 'Do not support'.

	Biology at KS3	Biology at KS4	Biology at KS5	Chemistry at KS3	Chemistry at KS4	Chemistry at KS5	Physics at KS3	Physics at KS4	Physics at KS5
Very unconfident	2 (14%)	2 (14%)	2 (17%)	2 (14%)	2 (14%)	1 (8%)	2 (13%)	3 (20%)	2 (15%)
Somewhat unconfident	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (8%)	0 (0%)	0 (0%)	1 (8%)
Neither confident nor un-confident	0 (0%)	0 (0%)	2 (17%)	0 (0%)	0 (0%)	1 (8%)	0 (0%)	0 (0%)	3 (23%)
Somewhat confident	1 (7%)	2 (14%)	4 (33%)	1 (7%)	2 (14%)	4 (33%)	4 (27%)	4 (27%)	5 (38%)
Very confident	11 (79%)	10 (71%)	4 (33%)	11 (79%)	10 (71%)	5 (42%)	9 (60%)	8 (53%)	2 (15%)
Column n	14*	14*	12*	14*	14*	12*	15*	15*	13*

Filter: Technician, Northern Ireland only + not selected 'Do not support' + State funded secondary schools;
Unweighted; base n = 12-15. *Small sample size.

For each of the levels that you teach, how confident are you in teaching biology, chemistry and/or physics subject content to these levels? If you don't teach the particular subject content to a level, either as a single subject or as part of a combined science course, select 'Do not teach'.

	Biology at KS3	Biology at KS4	Biology at KS5	Chemistry at KS3	Chemistry at KS4	Chemistry at KS5	Physics at KS3	Physics at KS4	Physics at KS5
Very unconfident	4 (9%)	3 (9%)	6 (26%)	3 (7%)	2 (5%)	0 (0%)	0 (0%)	0 (0%)	4 (19%)
Somewhat unconfident	1 (2%)	3 (9%)	3 (13%)	2 (4%)	4 (10%)	6 (22%)	5 (11%)	4 (13%)	3 (14%)
Neither confident nor un-confident	1 (2%)	0 (0%)	4 (17%)	1 (2%)	1 (3%)	2 (7%)	3 (7%)	3 (9%)	1 (5%)
Somewhat confident	6 (14%)	11 (32%)	1 (4%)	5 (11%)	8 (21%)	5 (19%)	5 (11%)	7 (22%)	2 (10%)
Very confident	32 (73%)	17 (50%)	9 (39%)	35 (76%)	24 (62%)	14 (52%)	31 (70%)	18 (56%)	11 (52%)
Do not teach	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	44	34	23*	46	39	27*	44	32	21*

Filter: Teacher, Northern Ireland only + not selected 'Do not teach' + State funded secondary schools;
Unweighted; base n = 21-46. *Small sample size.

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a teacher?

	%
Mean	6.6
Column n	47

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 47

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a technician?

	%
Mean	7.3
Column n	16*

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 16. *Small sample size.

The next question is about your mental well-being and will help us to better understand the well-being of teachers and technicians working in education. This question is optional and can be skipped by pressing [next].

Teachers

	%
High wellbeing (28 or greater)	4 (9%)
Moderate wellbeing (20 - 27)	30 (65%)
Low wellbeing (Less than 20)	12 (26%)
Average (Mean)	22.0
Column n	46

Filter: Teachers + State funded secondary schools; Unweighted; base n = 46

Technicians

	%
High wellbeing (28 or greater)	4 (25%)
Moderate wellbeing (20 - 27)	10 (63%)
Low wellbeing (Less than 20)	2 (13%)
Average (Mean)	24.0
Column n	16*

Filter: Technicians + State funded secondary schools; Unweighted; base n = 16. *Small sample size.

Section C

Retention

Summary

When asked how long they intend to stay in their current school, 13% of teacher respondents and 0% of technicians in Northern Ireland selected only to the end of the current academic year.

The reasons given for leaving are available below, but sample size is too small for comment.

How long do you intend to stay at your current school?

Teachers

	%
Up to the end of the current academic year	6 (13%)
Up to the end of the 25/26 academic year	2 (4%)
Up to the end of the 26/27 academic year	2 (4%)
Into the 27/28 academic year or beyond	25 (53%)
Don't know / Not sure	11 (23%)
Prefer not to say	1 (2%)
Column n	47

Filter Teachers + State funded secondary schools; Unweighted; base n = 47

How long do you intend to stay at your current school?

Technicians

	%
Up to the end of the current academic year	0 (0%)
Up to the end of the 25/26 academic year	2 (13%)
Up to the end of the 26/27 academic year	2 (13%)
Into the 27/28 academic year or beyond	10 (63%)
Don't know / Not sure	2 (13%)
Prefer not to say	0 (0%)
Column n	16*

Filter Technicians + State funded secondary schools; Unweighted; base n = 16. *Small sample size.

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

Teachers

	%
Retirement	5 (50%)
Move to a similar role at a different state school	4 (40%)
Move to a different state school for promotion	0 (0%)
Move to a similar role at a private/independent school	0 (0%)
Move to a private/independent school for promotion	0 (0%)
Move into teaching at higher education	0 (0%)
Move into another role in education (not teaching)	0 (0%)
I want to do something outside of education / career change	0 (0%)
Have a career break	0 (0%)
Other	0 (0%)
Don't know / Not sure	1 (10%)
Column n	10*

Filter Teachers + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 10.

*Small sample size.

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

Technicians

	%
Retirement	1 (25%)
Move to a similar role at a different state school	0 (0%)
Move to a different state school for promotion	0 (0%)
Move to a similar role at a private/independent school	0 (0%)
Move to a private/independent school for promotion	0 (0%)
Move into another role in education	1 (25%)
Move to a technician role in HE	0 (0%)
Move to a technician role in FE	0 (0%)
Start training to be a teacher	0 (0%)
I want to do something outside of education / career change	0 (0%)
Other	0 (0%)
Don't know / Not sure	2 (50%)
Column n	4*

Filter Technicians + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 4.

*Small sample size.

What are your reasons for leaving your current school?

Teachers

	%
Workload is too high / Lack of work life balance	3 (60%)
High levels of stress / exhaustion	3 (60%)
Having to teach outside specialism	3 (60%)
Low pay	1 (20%)
Lack of progression opportunities	1 (20%)
Lack of respect / don't feel appreciated	1 (20%)
Lack of recognition	1 (20%)
Poor student behaviour	2 (40%)
Issues with management	1 (20%)
Want to try something different	1 (20%)
Other	2 (40%)
Don't know / not sure	0 (0%)
Column n	5*

Filter Teachers + not retiring + State funded secondary schools; Unweighted; base n = 5. *Small sample size.

What are your reasons for leaving your current school?

Technicians

	%
Workload is too high / Lack of work life balance	0 (0%)
High levels of stress / exhaustion	1 (33%)
Lack of full-time contract (e.g. term time only)	1 (33%)
Low pay	3 (100%)
Lack of progression opportunities	3 (100%)
Lack of job security (e.g. temporary contracts)	0 (0%)
Lack of respect / don't feel appreciated	2 (67%)
Lack of recognition	2 (67%)
Having to perform tasks outside my role	1 (33%)
Poor student behaviour	1 (33%)
Issues with management	1 (33%)
Want to try something different	0 (0%)
Other	0 (0%)
Don't know / not sure	0 (0%)
Column n	3*

Filter Technicians + not retiring + State funded secondary schools; Unweighted; base n = 3. *Small sample size.

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a teacher at secondary school? Please select up to 5 factors from the following list that would be most influential.

Teachers

	%
More balanced / reduced workload	1 (100%)
Better work/life balance	0 (0%)
Having the option to work part-time	0 (0%)
Having the option to work remotely/work from home where feasible	0 (0%)
Increased pay	1 (100%)
Only expected to teach content you consider yourself a specialist in	0 (0%)
More opportunity for progression	0 (0%)
More respect / appreciation	0 (0%)
More recognition of work performance	1 (100%)
More support with student behaviour	0 (0%)
Less emphasis on exam results	0 (0%)
Less pressure regarding assessed school performance and inspections	0 (0%)
More support from parents	0 (0%)
More support from senior management team	0 (0%)
Increase funding for classroom/school resources	1 (100%)
Timetabled / regular professional development	1 (100%)
Being able to find a position in a different school	0 (0%)
Other	0 (0%)
There isn't anything that could convince me	0 (0%)
Column n	1*

Filter Teachers + moving out of Secondary teaching + State funded secondary schools; Unweighted; base n = 1.

*Small sample size.

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a technician at secondary school? Please select up to 5 factors from the following list that would be most influential.

Technicians

	%
More balanced / reduced workload	0 (0%)
Better work/life balance	1 (33%)
Better job security	0 (0%)
Having the option to work part-time	0 (0%)
Having the option to work remotely/work from home where feasible	3 (100%)
Increased pay	3 (100%)
More opportunity for progression	3 (100%)
More respect / appreciation	2 (67%)
More recognition of work performance	3 (100%)
More support with student behaviour	1 (33%)
More support from senior management team	1 (33%)
Increase funding for classroom/school resources	2 (67%)
Timetabled / regular professional development	1 (33%)
Being able to find a position in a different school	0 (0%)
Other	1 (33%)
There isn't anything that could convince me	0 (0%)
Column n	3*

Filter Technicians + moving out of Secondary education + State funded secondary schools; Unweighted; base n = 3. *Small sample size.

Section D

Challenges & barriers

Summary

Teachers reported several challenges at classroom level. Not enough time outside of the classroom was the most cited challenge (81%), followed by not enough classroom time to cover the curriculum content (79%) and student attendance (57%). Limited numeracy and literacy skills of students were notably lesser challenges compared to all other nations.

Insufficient staff non-contact time was the largest challenge identified at school level (59%), which is high compared to the other nations. As reported in our headlines, funding is also a key challenge at school level.

Respondents identified similar themes when considering barriers to running practical work in their schools. Insufficient time for practical work to be taught alongside theory (57%) was the highest cited barrier. Challenging student behaviour (33%) was less of a barrier compared to Scotland (50%) and Wales (58%).

Which of the following present challenges to your classroom teaching in science?

	%
Limited numeracy skills of students	16 (34%)
Limited literacy skills of students	14 (30%)
Insufficient classroom support, e.g. no teaching assistants	4 (9%)
Student attendance	27 (57%)
Challenging student behaviour	25 (53%)
Inadequate teaching resources (lesson plans / scheme of work)	4 (9%)
No technician/not enough technicians	15 (32%)
Teaching outside of specialism	8 (17%)
Lack of confidence in the subject area	2 (4%)
Insufficient lab access	6 (13%)
Insufficient classroom equipment	12 (26%)
Not enough classroom time to cover the curriculum content	37 (79%)
Not enough time outside of classroom (for planning/marking and/or assessment)	38 (81%)
Other	7 (15%)
There are no challenges	0 (0%)
Column n	47

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 47

What challenges does your school face?

	%
Insufficient funding	33 (52%)
High staff turnover	8 (13%)
Insufficient staff non-contact time	37 (59%)
Lack of support to students from parent/family/guardian	18 (29%)
Poor pupil attendance	19 (30%)
Understaffing of teaching staff	23 (37%)
Understaffing of classroom support staff	12 (19%)
High staff absence	10 (16%)
Insufficient support from leadership	19 (30%)
Negative working environment	17 (27%)
Lack of collaboration/teamwork amongst staff	13 (21%)
Not enough support for inexperienced teachers	15 (24%)
Other	3 (5%)
There are no challenges	3 (5%)
Column n	63

Filter: State funded secondary schools; Unweighted; base n = 63

What support do you need to address these challenges, either in the classroom and/or across the school?

	%
Consistent policies including behaviour management, attendance and learning and teaching	29 (46%)
More funding	37 (59%)
More non-contact time (for planning, PD, practising practical work)	45 (71%)
More classroom support staff	8 (13%)
Support from leadership	27 (43%)
Greater access to subject specific professional development	18 (29%)
Greater collaboration with colleagues	22 (35%)
Protected non-contact time	43 (68%)
Leadership led cultural shift	22 (35%)
Other	8 (13%)
Don't require support	1 (2%)
Column n	63

Filter: State funded secondary schools; Unweighted; base n = 63

Thinking about the last 12 months, with each of your KS3/ Third Level / Junior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	23 (50%)	16 (35%)	12 (26%)
At least once a fortnight	17 (37%)	19 (41%)	6 (13%)
At least once a month	6 (13%)	7 (15%)	8 (17%)
Once every couple of months	0 (0%)	1 (2%)	11 (24%)
Less often	0 (0%)	3 (7%)	6 (13%)
Never	0 (0%)	0 (0%)	3 (7%)
Don't know	0 (0%)	0 (0%)	0 (0%)
Column n	46	46	46

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 46

Thinking about the last 12 months, with each of your GCSE / National 5/ Transition Year classes, how often did you generally do the following in science lessons

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	9 (20%)	4 (9%)	7 (16%)
At least once a fortnight	18 (40%)	17 (38%)	11 (24%)
At least once a month	15 (33%)	15 (33%)	5 (11%)
Once every couple of months	1 (2%)	7 (16%)	12 (27%)
Less often	2 (4%)	2 (4%)	8 (18%)
Never	0 (0%)	0 (0%)	2 (4%)
Don't know	0 (0%)	0 (0%)	0 (0%)
Column n	45	45	45

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 45

Thinking about the last 12 months, with each of your A-Level / Higher/ Senior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	13 (34%)	4 (11%)	4 (11%)
At least once a fortnight	11 (29%)	11 (29%)	5 (13%)
At least once a month	8 (21%)	10 (26%)	6 (16%)
Once every couple of months	4 (11%)	3 (8%)	8 (21%)
Less often	2 (5%)	10 (26%)	13 (34%)
Never	0 (0%)	0 (0%)	2 (5%)
Don't know	0 (0%)	0 (0%)	0 (0%)
Column n	38	38	38

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 38

What are the barriers you face to running practical work in your school?

	%
Understaffing of science technicians	19 (30%)
Insufficient time for practical to be taught alongside theory	36 (57%)
Lack of equipment	18 (29%)
No time for training/practicing	16 (25%)
Health and safety concerns	16 (25%)
Challenging student behaviour	21 (33%)
Cost of consumables and chemicals	21 (33%)
Lack of confidence in delivering practical sessions	5 (8%)
Insufficient lab access	8 (13%)
Unsuitable labs	12 (19%)
Other	4 (6%)
No barriers	3 (5%)
Column n	63

Filter: State funded secondary schools; Unweighted; base n = 63

Section E

Professional development

Summary

Over the period of February 2024 to February 2025, 50% of those teaching chemistry did not access any subject specific professional development (compared to 59% of those teaching biology and 54% of those teaching physics). 31% of science technicians did not access any role-specific professional development in the same time period. This level of access is comparable to England.

57% of those teaching chemistry felt the amount of time they undertook subject-specific professional development was insufficient, or somewhat insufficient. Teachers reported that a lack of funding for cover teachers (62%), a lack of available cover teachers (62%) and the availability of courses (60%) were the biggest barriers to accessing subject-specific PD.

Thinking about the last 12 months (since February 2024), please select the number of hours of subject specific professional development that you received for each of the following subjects: If you didn't teach this subject in the last 12 months, please select 'Not applicable - don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
0 hrs - Didn't access any professional development	19 (59%)	20 (50%)	15 (54%)	19 (61%)	8 (36%)
Up to 5 hours	4 (13%)	7 (18%)	5 (18%)	5 (16%)	3 (14%)
5 - 9 hours	2 (6%)	1 (3%)	0 (0%)	0 (0%)	2 (9%)
10 – 14 hours	1 (3%)	2 (5%)	1 (4%)	1 (3%)	5 (23%)
15 – 19 hours	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
20 - 24 hours	1 (3%)	1 (3%)	0 (0%)	1 (3%)	0 (0%)
25 - 29 hours	0 (0%)	0 (0%)	0 (0%)	1 (3%)	0 (0%)
30 - 34 hours	0 (0%)	0 (0%)	0 (0%)	1 (3%)	0 (0%)
35+ hours	0 (0%)	1 (3%)	1 (4%)	0 (0%)	1 (5%)
Don't know	5 (16%)	8 (20%)	6 (21%)	3 (10%)	3 (14%)
Column n	32	40	28*	31	22*

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 22-40. *Small sample size.

Thinking about the last 12 months (since February 2024), please select the number of hours of role-specific professional development that you received:

SSPD	%
0 hrs - Didn't access any professional development	5 (31%)
Up to 5 hours	5 (31%)
5 - 9 hours	3 (19%)
10 - 14 hours	1 (6%)
15 - 19 hours	0 (0%)
20 - 24 hours	1 (6%)
25 - 29 hours	0 (0%)
30 - 34 hours	0 (0%)
35+ hours	0 (0%)
Don't know	1 (6%)
Column n	16*

Filter: Technicians only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 16.

*Small sample size.

Thinking again about the last 12 months (since February 2024). Was the amount of time that you undertook subject specific professional development for each subject...? If you didn't teach this subject in the last academic year, please select 'Not applicable – don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
Insufficient	13 (39%)	17 (40%)	10 (33%)	16 (46%)	9 (35%)
Somewhat insufficient	4 (12%)	7 (17%)	4 (13%)	4 (11%)	3 (12%)
Neither sufficient nor insufficient	10 (30%)	10 (24%)	11 (37%)	10 (29%)	2 (8%)
Somewhat sufficient	2 (6%)	6 (14%)	4 (13%)	3 (9%)	4 (15%)
Sufficient	2 (6%)	2 (5%)	0 (0%)	2 (6%)	4 (15%)
Don't know / Can't remember	2 (6%)	0 (0%)	1 (3%)	0 (0%)	4 (15%)
Not applicable – don't teach this subject	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	33	42	30	35	26*

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 26-42. *Small sample size.

Thinking again about the last 12 months since February 2024. Was the amount of time that you undertook role-specific professional development...?

	%
Insufficient	6 (38%)
Somewhat insufficient	2 (13%)
Neither sufficient nor insufficient	3 (19%)
Somewhat sufficient	1 (6%)
Sufficient	4 (25%)
Don't know / Can't remember	0 (0%)
Column n	16*

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 16. *Small sample size.

Which of the following barriers apply to your own experience of accessing subject specific professional development?

	%
Lack of funding for cover teachers	29 (62%)
Lack of available cover teachers	29 (62%)
Course cost & expenses to attend courses	27 (57%)
School policy restricts the type of courses I can attend	5 (11%)
Having to attend PD courses/training in my own time	26 (55%)
Availability of courses	28 (60%)
Lack of knowledge about opportunities	23 (49%)
Not having access to the required technology/software/learning platforms, etc.	4 (9%)
Prohibitive travel time / distance	19 (40%)
Other	5 (11%)
There are no barriers	0 (0%)
Column n	47

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 47

Which of the following barriers apply to your own experience of accessing role-specific professional development?

	%
Lack of funding for cover staff	1 (6%)
Lack of available cover staff	1 (6%)
Course cost & expenses to attend courses	8 (50%)
School policy restricts the type of courses I can attend	1 (6%)
Having to attend PD courses/training in my own time	1 (6%)
Availability of courses	12 (75%)
Lack of knowledge about opportunities	5 (31%)
Not having access to the required technology/software/learning platforms, etc.	2 (13%)
Prohibitive travel time / distance	7 (44%)
There are no barriers	2 (13%)
Column n	16*

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 16. *Small sample size.

Why is subject-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	36 (77%)
It helps me to develop my expertise in areas I haven't taught before	22 (47%)
It gives me new ideas to improve my teaching based on the latest education research	44 (94%)
It increases my confidence in using practical activities in my lessons	25 (53%)
It helps me to develop teaching approaches to meet specific learner needs	30 (64%)
It helps me contextualise the curriculum	19 (40%)
It allows me to share ideas and learn from other teachers outside of my classroom	32 (68%)
It increases my enthusiasm for my subject	30 (64%)
Other, please elaborate	0 (0%)
It's not important to me	0 (0%)
Column n	47

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 47

Why is role-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	12 (75%)
It helps me to develop my expertise in health and safety and prep room management	13 (81%)
It gives me new ideas to improve practical activities	13 (81%)
It increases my confidence in my role	11 (69%)
It gives me a deeper knowledge of how practical activities can be used to support the delivery of the curriculum	10 (63%)
It allows me to share ideas and learn from other technicians outside of my school	12 (75%)
It increases my enthusiasm for my job	7 (44%)
Other, please elaborate	2 (13%)
Column n	16*

Filter: Technicians only + State funded secondary schools; Unweighted; base n = 16. *Small sample size.

Aside from statutory PD e.g. safeguarding, what are your school's priorities for CPD?

	%
Developing the leadership talent pipeline	5 (8%)
Developing leadership skills of those in post	12 (19%)
Improving teacher subject expertise	8 (13%)
Prioritising whole school PD based on the school improvement plan	29 (46%)
Developing teaching approaches to meet specific learner needs	15 (24%)
Contextualising subjects	2 (3%)
Other, please elaborate	4 (6%)
Don't know	22 (35%)
Column n	63

Filter: State funded secondary schools; Unweighted; base n = 63

Section F

Vocational pathways

Summary

Teachers in Northern Ireland have lower confidence in providing information on both academic and technical/vocational routes into careers compared to the other nations. This confidence is particularly poor when providing information on technical/vocational routes, with only 41% of teachers feeling somewhat or very confident to do so (this is second lowest across the nations, only higher than the ROI).

We asked teachers about their awareness of and advocacy for different academic and vocational science pathways. The strongest levels of advocacy were for traditional academic routes into the sciences (A levels, undergraduate degrees). There were similarly low levels of advocacy for degree apprenticeships as seen in Wales (38% of teachers aware of and advocate for this route in Northern Ireland compared to 30% in Wales; advocacy in both nations significantly below that seen in England, at 60%).

How confident do you feel about the following areas?

	Linking the curriculum to real-life contexts	Linking the curriculum to scientific careers	Providing information on academic routes into scientific careers	Providing information on technical/vocational routes into scientific careers
Very unconfident	1 (2%)	1 (2%)	1 (2%)	4 (9%)
Somewhat unconfident	3 (6%)	3 (6%)	8 (17%)	17 (36%)
Neither confident nor unconfident	5 (11%)	4 (9%)	8 (17%)	7 (15%)
Somewhat confident	23 (49%)	27 (57%)	20 (43%)	13 (28%)
Very confident	14 (30%)	12 (26%)	10 (21%)	6 (13%)
Don't know / Not sure	1 (2%)	0 (0%)	0 (0%)	0 (0%)
Not applicable / Don't include in my teaching	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	47	47	47	47

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 47

For each of the following academic and vocational science pathways, please tell us which you are aware of and advocate to your students.

	A levels	BTEC Nationals	BTEC Apprenticeships	Foundation Apprenticeship
Not aware	1 (2%)	12 (26%)	14 (30%)	20 (43%)
Aware but don't advocate	3 (6%)	20 (43%)	19 (40%)	13 (28%)
Aware and advocate to my students	43 (91%)	8 (17%)	4 (9%)	5 (11%)
Don't know / Not sure	0 (0%)	7 (15%)	10 (21%)	9 (19%)
Column n	47	47	47	47

	Apprenticeship	Higher Apprenticeship	Degree Apprenticeship	Foundation degree	Undergraduate degree
Not aware	12 (26%)	10 (21%)	8 (17%)	7 (15%)	1 (2%)
Aware but don't advocate	13 (28%)	13 (28%)	10 (21%)	17 (36%)	4 (9%)
Aware and advocate to my students	14 (30%)	15 (32%)	18 (38%)	14 (30%)	41 (87%)
Don't know / Not sure	8 (17%)	9 (19%)	11 (23%)	9 (19%)	1 (2%)
Column n	47	47	47	47	47

Filter: Teachers, Northern Ireland only + State funded secondary schools; Unweighted; base n = 47

What are the barriers, if any, that prevent you from advocating for vocational pathways to your students?

	%
Lack of detailed knowledge about the pathways	0 (0%)
Lack of funding	0 (0%)
Lack of local availability of courses	0 (0%)
Lack of local availability of placements	0 (0%)
School is focused on academic pathways	0 (0%)
Don't know / Not sure	0 (0%)
Other	1 (100%)
There are no barriers	0 (0%)
Column n	1*

Filter: Teachers, Not advocated to any vocational pathways only + State funded secondary schools; Unweighted; base n = 1. *Small sample size.

What are the barriers for you working with external organisations to deliver outreach activities to your students?

	%
Limited time	41 (87%)
Funding	26 (55%)
Student behaviour	3 (6%)
Lack of support and encouragement from senior leaders	10 (21%)
Lack of interest / engagement from local organisations, companies etc	8 (17%)
Safeguarding concerns	3 (6%)
Lack of awareness of opportunities	25 (53%)
I don't see the benefits for students	1 (2%)
Lack of my time to organise	32 (68%)
Lack of time within the school day to enable this	33 (70%)
Other priorities/pressures (eg Ofsted)	8 (17%)
Lack of interest / engagement from local organisations, companies etc	1 (2%)
Column n	47

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 47

Section G

Digital technology

Summary

Teachers across the nations appear to have comparable levels of access to digital technology.

84% of teachers in Northern Ireland agree or strongly agree that they can use digital technology when needed and 57% agree or strongly agree that they are confident in using digital tools.

27% of teachers never use digital tools in their science lessons.

Have you ever used AI within your role?

	%
Yes	34 (54%)
No	29 (46%)
Column n	63

Filter: State funded secondary schools; Unweighted; base n = 63

Which of the following AI-powered tools or technologies (if any) have you used or experimented with in your teaching practice?

	%
Grammarly	4 (12%)
magic.ai	1 (3%)
Teachermatic	0 (0%)
Teachmateai	5 (15%)
Riffbot	0 (0%)
Revisely	1 (3%)
Copilot	16 (48%)
ChatGPT	25 (76%)
DALL-E 3	1 (3%)
Oak Aila lesson planning tool	0 (0%)
Google Bard	1 (3%)
Other, please provide	1 (3%)
Column n	33

Filter: Have used AI + State funded secondary schools; Unweighted; base n = 33

To what extent do you agree with the following statement? I am able to use digital technology (e.g. computer room / tablets / laptops / WiFi) when needed.

	%
Strongly agree	32 (52%)
Agree	20 (32%)
Neither agree nor disagree	1 (2%)
Disagree	5 (8%)
Strongly disagree	4 (6%)
Don't know / Not sure	0 (0%)
Column n	62

Filter: State funded secondary schools; Unweighted; base n = 62

How often does your department use digital tools in your lessons, e.g. light gates, digital microscopes?

	%
Every week	4 (6%)
Once a topic (where relevant)	26 (42%)
Once a term	12 (19%)
Never	17 (27%)
Don't know / Not sure	3 (5%)
Column n	62

Filter: State funded secondary schools; Unweighted; base n = 62

To what extent do you agree with the following statement? I am confident in using digital tools in my teaching.

	%
Strongly agree	15 (33%)
Agree	11 (24%)
Neither agree nor disagree	10 (22%)
Disagree	7 (15%)
Strongly disagree	2 (4%)
Don't know / Not sure	0 (0%)
Column n	46

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 46

Section H

Additional support and resources

Summary

76% of teachers somewhat or strongly agree that students with SEND/ALN have access to the support and resources needed to engage in science lessons comparably with their peers.

Similarly, 80% of teachers somewhat or strongly agree that students with SEND/ALN have access to support and resources needed to participate in all practical activities in science lessons.

This level of support for SEND/ALN students is the highest of all the nations (as seen in section A Northern Ireland also reports the lowest levels of teaching assistant understaffing).

47% of respondents felt that more training on specific strategies for SEND/ALN students would improve the equitable experience of those students in science lessons.

How far do you agree with the following statements?

	Students with SEND/ALN have access to any additional support/resources needed to engage in science lessons comparably to their peers	Students with SEND/ALN have access to any additional support/resources needed to participate in all practical activities in science lessons
Strongly agree	14 (30%)	12 (26%)
Somewhat agree	21 (46%)	25 (54%)
Neither agree nor disagree	8 (17%)	6 (13%)
Somewhat disagree	2 (4%)	2 (4%)
Strongly disagree	1 (2%)	1 (2%)
Don't know / Not sure	0 (0%)	0 (0%)
Column n	46	46

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 46

For your school/department, what would improve the equitable experience of students with SEND/ALN in science lessons?

	%
More teaching assistant support	25 (40%)
Specialist practical equipment (materials, ear defenders, quiet classroom areas etc)	20 (32%)
More training on specific strategies for SEND/ALN students	29 (47%)
Teaching resources that are accessible for SEND/ALN learners	27 (44%)
Specialist technology	10 (16%)
Other	9 (15%)
Column n	62

Filter: State funded secondary schools; Unweighted; base n = 62

Section A

About your school

Summary

Respondents **in the Republic of Ireland** reported significantly higher understaffing of science technicians and teaching assistants compared to the nations of the UK. 93% of respondents felt they were understaffed for teaching assistants, and 78% for science technicians.

Equivalent data is available for [Wales](#), [Northern Ireland](#), [Scotland](#) and [England](#).

Which of the following best describes your current job role?

	%
Head of department/principal teacher – Science	3 (10%)
Head of department/principal teacher – Chemistry	8 (26%)
Head of department/principal teacher – Physics	4 (13%)
Head of department/principal teacher – Biology	2 (6%)
Classroom teacher of science, biology, chemistry and/or physics	14 (45%)
FE lecturer of science, biology, chemistry and/or physics	0 (0%)
Science technician	0 (0%)
Trainee / student science teacher	0 (0%)
Other staff member with science teaching responsibilities, e.g. SLT	0 (0%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

Which of the following best describes the school where you work?

	%
Local authority, Community, Foundation, or ETB	26 (84%)
Academy (standalone)	0 (0%)
Academy (in a multi-academy trust)	1 (3%)
Grammar school/selective school (any type of state school with selective admissions)	4 (13%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

Please describe the staffing at your school or college in each of the following areas. By understaffed, we mean that you do not feel that the current provision is sufficient for your school.

	Biology teachers	Chemistry teachers	Physics teachers	Science technicians	Teaching assistants
Overstaffed	5 (16%)	2 (6%)	2 (6%)	0 (0%)	0 (0%)
Adequately staffed	23 (74%)	20 (65%)	22 (71%)	3 (17%)	0 (0%)
Understaffed	2 (6%)	9 (29%)	7 (23%)	14 (78%)	13 (93%)
Don't know / Not sure	1 (3%)	0 (0%)	0 (0%)	1 (6%)	1 (7%)
Column n	31	31	31	18*	14*

Filter: Not select 'Not applicable' + State funded secondary schools; Unweighted; base n = 14-31. *Small sample size.

Which of the following are significantly impacted as a result of understaffing of biology, chemistry, and/or physics teachers?

	%
Learning	11 (92%)
Behaviour	6 (50%)
Student motivation	5 (42%)
GCSE subject choices	2 (17%)
HE progression routes	2 (17%)
Other	0 (0%)
Column n	12*

Filter: Selected 'Understaffed' only + State funded secondary schools; Unweighted; base n = 12.

*Small sample size.

Section B

About your role

Summary

Teachers feel varying levels of confidence in teaching the sciences, with confidence lower for Junior Cycle Earth and Space (37% of teachers are very or somewhat unconfident) and Leaving Certificate Chemistry and Physics (43% very or somewhat unconfident).

Job satisfaction for teachers is comparable to those in England and Northern Ireland.

For which of these subjects, if any, would you define yourself as a specialist?

	%
Biology	16 (52%)
Chemistry	20 (65%)
Physics	8 (26%)
General Science	24 (77%)
None of the above	0 (0%)
Don't know / Not sure	0 (0%)
Column n	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

Including the current academic year, how many years have you been teaching the sciences? Please do not include your training year.

	%
1-2 YRS	1 (3%)
3-4 YRS	5 (16%)
5-9 YRS	6 (19%)
10+ YRS	62 (61%)
Don't know/Can't remember	0 (0%)
Prefer not to say	0 (0%)
Column n	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

For each of the key stages that you teach, how confident are you in teaching biology, chemistry and/or physics subject content to these key stages? If you don't teach the particular subject content to a key stage, either as a single subject or as part of a combined science course, select 'Do not teach'.

	Junior Cycle Biological World	Junior Cycle Chemical World	Junior Cycle Physical World	Junior Cycle Earth and Space	Transition Year Science	Leaving Cert Biology
Very unconfident	3 (10%)	2 (7%)	2 (7%)	9 (30%)	6 (21%)	2 (10%)
Somewhat unconfident	0 (0%)	0 (0%)	4 (13%)	2 (7%)	1 (4%)	2 (10%)
Neither confident nor un-confident	0 (0%)	1 (3%)	2 (7%)	4 (13%)	5 (18%)	0 (0%)
Somewhat confident	6 (20%)	7 (23%)	9 (30%)	9 (30%)	11 (39%)	3 (15%)
Very confident	21 (70%)	20 (67%)	13 (43%)	6 (20%)	5 (18%)	13 (65%)
Column n	30	30	30	30	28*	20*

	Leaving Cert Ag Science	Leaving Cert Chemistry	Leaving Cert Physics	Leaving Cert Chem and Physics	Leaving Cert Computer Science
Very unconfident	1 (13%)	2 (10%)	2 (15%)	3 (43%)	5 (83%)
Somewhat unconfident	0 (0%)	2 (10%)	2 (15%)	0 (0%)	1 (17%)
Neither confident nor un-confident	2 (25%)	3 (15%)	2 (15%)	0 (0%)	0 (0%)
Somewhat confident	5 (63%)	2 (10%)	2 (15%)	3 (43%)	0 (0%)
Very confident	0 (0%)	11 (55%)	5 (38%)	1 (14%)	0 (0%)
Column n	8*	20*	13*	7*	6*

Filter: Teacher, Republic of Ireland only + not selected 'Do not teach' + State funded secondary schools; Unweighted; base n = 6-30. *Small sample size.

How much time do you envisage spending with your students on the AAC (project) component of the incoming leaving certificate in chemistry?

	%
Less than 20 hours	0 (0%)
20 hours	2 (6%)
More than 20 hours	18 (58%)
Don't know / Not sure	11 (35%)
Column n	31

Filter: Teacher, Republic of Ireland only + State funded secondary schools; Unweighted; base n = 31

To what extent do you agree with the following statements?

	The new Leaving Certificate chemistry specification is clear.	I feel professionally supported to deliver the new Leaving Certificate in chemistry.	I am confident with the proposed content of the new Leaving Certificate in chemistry.
Strongly agree	0 (0%)	0 (0%)	1 (3%)
Agree	4 (13%)	2 (6%)	2 (6%)
Neither agree nor disagree	7 (23%)	2 (6%)	6 (19%)
Disagree	7 (23%)	6 (19%)	8 (26%)
Strongly disagree	6 (19%)	14 (45%)	7 (23%)
Don't know / Not sure	7 (23%)	7 (23%)	7 (23%)
Column n	31	31	31

Filter: Teacher, Republic of Ireland only + State funded secondary schools; Unweighted; base n = 31

On a scale of 0 to 10, where '0' is not satisfied at all and '10' is completely satisfied, how satisfied are you with your job as a teacher?

Teachers

	%
Mean	6.6
Column n	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

58% of teachers in ROI envisage spending more time with their students on the new AAC (project) component of the incoming leaving certificate than the 20 hours allocated. This may create a squeeze on the available teaching time to get through the required content.

The majority of teachers do not feel professionally supported to deliver the new Leaving Certificate in chemistry. Only 13% of teachers feel the new specification is clear, and 49% of teachers do not feel confident with the proposed content of the new qualification.

The next question is about your mental well-being and will help us to better understand the well-being of teachers and technicians working in education. This question is optional and can be skipped by pressing [next].

Technicians

	%
High wellbeing (28 or greater)	7 (23%)
Moderate wellbeing (20 - 27)	16 (52%)
Low wellbeing (Less than 20)	8 (26%)
Average (Mean)	23.2
Column n	31

Filter: Teachers + State funded secondary schools; Unweighted; base n = 31

Section C

Retention

Summary

When asked how long they intend to stay in their current school, 16% of teacher respondents in the Republic of Ireland selected only to the end of the current academic year.

This level of attrition is the highest among all the nations. The reasons given for leaving are available below, but sample size is too small for comment.

How long do you intend to stay at your current school?

	%
Up to the end of the current academic year	5 (16%)
Up to the end of the 25/26 academic year	1 (3%)
Up to the end of the 26/27 academic year	2 (6%)
Into the 27/28 academic year or beyond	15 (48%)
Don't know / Not sure	6 (19%)
Prefer not to say	2 (6%)
Column n	31

Filter Teachers + State funded secondary schools; Unweighted; base n = 31

What are you planning to do after leaving your current school? If you have more than one plan, please select the one that is most likely.

	%
Retirement	2 (25%)
Move to a similar role at a different state school	5 (63%)
Move to a different state school for promotion	0 (0%)
Move to a similar role at a private/independent school	0 (0%)
Move to a private/independent school for promotion	0 (0%)
Move into teaching at higher education	0 (0%)
Move into another role in education (not teaching)	0 (0%)
I want to do something outside of education / career change	0 (0%)
Have a career break	1 (13%)
Other	0 (0%)
Don't know / Not sure	0 (0%)
Column n	8*

Filter Teachers + leaving by end of 26/27 academic year + State funded secondary schools; Unweighted; base n = 8.

*Small sample size.

What are your reasons for leaving your current school?

	%
Workload is too high / Lack of work life balance	0 (0%)
High levels of stress / exhaustion	2 (33%)
Having to teach outside specialism	0 (0%)
Low pay	0 (0%)
Lack of progression opportunities	3 (50%)
Lack of respect / don't feel appreciated	1 (17%)
Lack of recognition	2 (33%)
Poor student behaviour	1 (17%)
Issues with management	3 (50%)
Want to try something different	0 (0%)
Other	3 (50%)
Don't know / not sure	0 (0%)
Column n	6*

Filter Teachers + not retiring + State funded secondary schools; Unweighted; base n = 6. *Small sample size.

You mentioned that you are planning to move out of your role at secondary school. What changes would convince you to stay on as a teacher at secondary school? Please select up to 5 factors from the following list that would be most influential.

	%
More balanced / reduced workload	1 (100%)
Better work/life balance	1 (100%)
Having the option to work part-time	0 (0%)
Having the option to work remotely/work from home where feasible	0 (0%)
Increased pay	0 (0%)
Only expected to teach content you consider yourself a specialist in	1 (100%)
More opportunity for progression	0 (0%)
More respect / appreciation	0 (0%)
More recognition of work performance	0 (0%)
More support with student behaviour	0 (0%)
Less emphasis on exam results	0 (0%)
Less pressure regarding assessed school performance and inspections	0 (0%)
More support from parents	0 (0%)
More support from senior management team	0 (0%)
Increase funding for classroom/school resources	1 (100%)
Timetabled / regular professional development	0 (0%)
Being able to find a position in a different school	0 (0%)
Other	0 (0%)
There isn't anything that could convince me	0 (0%)
Column n	1*

Filter Teachers + moving out of Secondary teaching + State funded secondary schools; Unweighted; base n = 1.

*Small sample size.

Section D

Challenges & barriers

Summary

Teachers reported several challenges at classroom level. No technician/not enough technicians was the most cited challenge (84%), followed by not enough time outside of the classroom (68%), and the limited numeracy skills of students (65%). We do note that the use of science technicians varies across the school system in the Republic of Ireland.

Insufficient staff non-contact time was the largest challenge identified at school level (48%). Funding is less of a challenge for schools in the Republic of Ireland compared to the nations of the UK, with only 39% of staff citing this as a key challenge.

Respondents identified similar themes when considering barriers to running practical work in their schools. Insufficient time for practical work to be taught alongside theory (71%) and the understaffing of science technicians (61%) were the highest cited barriers.

Which of the following present challenges to your classroom teaching in science?

	%
Limited numeracy skills of students	20 (65%)
Limited literacy skills of students	17 (55%)
Insufficient classroom support, e.g. no teaching assistants	16 (52%)
Student attendance	20 (65%)
Challenging student behaviour	10 (32%)
Inadequate teaching resources (lesson plans / scheme of work)	7 (23%)
No technician/not enough technicians	26 (84%)
Teaching outside of specialism	2 (6%)
Lack of confidence in the subject area	4 (13%)
Insufficient lab access	14 (45%)
Insufficient classroom equipment	17 (55%)
Not enough classroom time to cover the curriculum content	18 (58%)
Not enough time outside of classroom (for planning/marking and/or assessment)	21 (68%)
Other	3 (10%)
There are no challenges	0 (0%)
Column n	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

What challenges does your school face?

	%
Insufficient funding	12 (39%)
High staff turnover	6 (19%)
Insufficient staff non-contact time	15 (48%)
Lack of support to students from parent/family/guardian	11 (35%)
Poor pupil attendance	14 (45%)
Understaffing of teaching staff	5 (16%)
Understaffing of classroom support staff	9 (29%)
High staff absence	2 (6%)
Insufficient support from leadership	11 (35%)
Negative working environment	8 (26%)
Lack of collaboration/teamwork amongst staff	11 (35%)
Not enough support for inexperienced teachers	9 (29%)
Other	2 (6%)
There are no challenges	1 (3%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

What support do you need to address these challenges, either in the classroom and/or across the school?

	%
Consistent policies including behaviour management, attendance and learning and teaching	10 (32%)
More funding	13 (42%)
More non-contact time (for planning, PD, practising practical work)	23 (74%)
More classroom support staff	17 (55%)
Support from leadership	10 (32%)
Greater access to subject specific professional development	13 (42%)
Greater collaboration with colleagues	13 (42%)
Protected non-contact time	19 (61%)
Leadership led cultural shift	12 (39%)
Other	3 (10%)
Don't require support	1 (3%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

Thinking about the last 12 months, with each of your KS3 / Third Level/ Junior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	8 (29%)	9 (32%)	4 (14%)
At least once a fortnight	12 (43%)	3 (11%)	5 (18%)
At least once a month	5 (18%)	7 (25%)	5 (18%)
Once every couple of months	2 (7%)	6 (21%)	7 (25%)
Less often	1 (4%)	2 (7%)	6 (21%)
Never	0 (0%)	1 (4%)	1 (4%)
Don't know	0 (0%)	0 (0%)	0 (0%)
Column n	28*	28*	28*

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 28. *Small sample size.

Thinking about the last 12 months, with each of your GCSE / National 5 / Transition Year classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	13 (50%)	7 (27%)	4 (15%)
At least once a fortnight	6 (23%)	5 (19%)	3 (12%)
At least once a month	5 (19%)	4 (15%)	3 (12%)
Once every couple of months	1 (4%)	2 (8%)	3 (12%)
Less often	1 (4%)	5 (19%)	9 (35%)
Never	0 (0%)	3 (12%)	4 (15%)
Don't know	0 (0%)	0 (0%)	0 (0%)
Column n	26*	26*	26*

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 26. *Small sample size.

Thinking about the last 12 months, with each of your A-Level / Higher / Senior Cycle classes, how often did you generally do the following in science lessons?

	Hands on practical work	A teacher demonstration of a practical	Watching a video of a practical
At least once a week	8 (27%)	7 (23%)	6 (20%)
At least once a fortnight	10 (33%)	3 (10%)	3 (10%)
At least once a month	10 (33%)	7 (23%)	5 (17%)
Once every couple of months	2 (7%)	2 (7%)	5 (17%)
Less often	0 (0%)	9 (30%)	10 (33%)
Never	0 (0%)	2 (7%)	0 (0%)
Don't know	0 (0%)	0 (0%)	1 (3%)
Column n	30	30	30

Filter: Teachers only + not selected 'I don't teach this age range' + State funded secondary schools; Unweighted; base n = 30

What are the barriers you face to running practical work in your school?

	%
Understaffing of science technicians	19 (61%)
Insufficient time for practical to be taught alongside theory	22 (71%)
Lack of equipment	17 (55%)
No time for training/practicing	12 (39%)
Health and safety concerns	9 (29%)
Challenging student behaviour	10 (32%)
Cost of consumables and chemicals	8 (26%)
Lack of confidence in delivering practical sessions	5 (16%)
Insufficient lab access	12 (39%)
Unsuitable labs	9 (29%)
Other	1 (3%)
No barriers	1 (3%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

Section E

Professional development

Summary

Over the period of February 2024 to February 2025, 11% of those teaching chemistry did not access any subject specific professional development (compared to 18% of those teaching biology and 25% of those teaching physics). This suggests improved access to subject-specific professional development for teachers in the Republic of Ireland, however the sample size is small.

30% of those teaching chemistry felt the amount of time they undertook subject-specific professional development was insufficient, or somewhat insufficient. Teachers reported that having to attend courses in their own time (71%) and the availability of courses (58%) were the biggest barriers to accessing subject-specific PD.

Broadly, teachers in the Republic of Ireland have the greatest access to subject-specific professional development, and are more satisfied with the time spent doing so, compared to teachers in all the other nations surveyed.

Thinking about the last 12 months (since February 2024), please select the number of hours of subject specific professional development that you received for each of the following subjects: If you didn't teach this subject in the last 12 months, please select 'Not applicable - don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
0 hrs - Didn't access any professional development	3 (18%)	2 (11%)	3 (25%)	3 (13%)	2 (11%)
Up to 5 hours	7 (41%)	6 (32%)	0 (0%)	8 (35%)	8 (42%)
5 - 9 hours	4 (24%)	6 (32%)	2 (17%)	7 (30%)	5 (26%)
10 – 14 hours	2 (12%)	1 (5%)	3 (25%)	2 (9%)	3 (16%)
15 – 19 hours	0 (0%)	2 (11%)	1 (8%)	0 (0%)	0 (0%)
20 - 24 hours	0 (0%)	1 (5%)	1 (8%)	1 (4%)	1 (5%)
25 - 29 hours	0 (0%)	0 (0%)	1 (8%)	0 (0%)	0 (0%)
30 - 34 hours	1 (6%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
35+ hours	0 (0%)	1 (5%)	1 (8%)	0 (0%)	0 (0%)
Don't know	0 (0%)	0 (0%)	0 (0%)	2 (9%)	0 (0%)
Column n	17*	19*	12*	23*	19*

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 12-23. *Small sample size.

Thinking again about the last 12 months (since February 2024). Was the amount of time that you undertook subject specific professional development for each subject...? If you didn't teach this subject in the last academic year, please select 'Not applicable – don't teach this subject'.

	Biology	Chemistry	Physics	General Science	Non-science subjects
Insufficient	5 (29%)	4 (24%)	2 (18%)	10 (38%)	1 (6%)
Somewhat insufficient	3 (18%)	1 (6%)	2 (18%)	4 (15%)	2 (13%)
Neither sufficient nor insufficient	2 (12%)	1 (6%)	2 (18%)	1 (4%)	2 (13%)
Somewhat sufficient	4 (24%)	7 (41%)	3 (27%)	8 (31%)	3 (19%)
Sufficient	3 (18%)	4 (24%)	2 (18%)	3 (12%)	7 (44%)
Don't know / Can't remember	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (6%)
Not applicable – don't teach this subject	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	17*	17*	11*	26*	16*

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 11-26.

*Small sample size.

Which of the following barriers apply to your own experience of accessing subject specific professional development?

	%
Lack of funding for cover teachers	10 (32%)
Lack of available cover teachers	12 (39%)
Course cost & expenses to attend courses	5 (16%)
School policy restricts the type of courses I can attend	4 (13%)
Having to attend PD courses/training in my own time	22 (71%)
Availability of courses	18 (58%)
Lack of knowledge about opportunities	7 (23%)
Not having access to the required technology/software/learning platforms, etc.	4 (13%)
Prohibitive travel time / distance	5 (16%)
Other	3 (10%)
There are no barriers	1 (3%)
Column n	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

Why is subject-specific professional development important to you?

	%
It keeps me up to date with new scientific developments	25 (81%)
It helps me to develop my expertise in areas I haven't taught before	20 (65%)
It gives me new ideas to improve my teaching based on the latest education research	29 (94%)
It increases my confidence in using practical activities in my lessons	21 (68%)
It helps me to develop teaching approaches to meet specific learner needs	22 (71%)
It helps me contextualise the curriculum	15 (48%)
It allows me to share ideas and learn from other teachers outside of my classroom	21 (68%)
It increases my enthusiasm for my subject	21 (68%)
Other, please elaborate	0 (0%)
It's not important to me	1 (3%)
Column n	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

Aside from statutory PD e.g. safeguarding, what are your school's priorities for CPD?

	%
Developing the leadership talent pipeline	4 (13%)
Developing leadership skills of those in post	4 (13%)
Improving teacher subject expertise	8 (26%)
Prioritising whole school PD based on the school improvement plan	17 (55%)
Developing teaching approaches to meet specific learner needs	8 (26%)
Contextualising subjects	1 (3%)
Other, please elaborate	0 (0%)
Don't know	10 (32%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

Section F

Vocational pathways

Summary

Teachers in the Republic of Ireland have the least confidence in linking the curriculum to both real-life contexts and scientific careers, and providing information on both academic and technical/vocational routes into careers. For example, only 49% of teachers in the Republic of Ireland feel somewhat or very confident in providing information on academic routes, compared to 76% of teachers in Scotland.

We asked teachers about their awareness of and advocacy for different academic and vocational science pathways. Teachers in the Republic of Ireland report lower levels of awareness of and advocacy for undergraduate degrees compared to all other nations. There are also low levels of advocacy for various apprenticeship routes. The established leaving certificate is by far the most advocated for route at level 3.

How confident do you feel about the following areas?

	Linking the curriculum to real-life contexts	Linking the curriculum to scientific careers	Providing information on academic routes into scientific careers	Providing information on technical/vocational routes into scientific careers
Very unconfident	2 (7%)	1 (3%)	3 (10%)	6 (19%)
Somewhat unconfident	4 (13%)	5 (16%)	5 (16%)	11 (35%)
Neither confident nor unconfident	2 (7%)	4 (13%)	8 (26%)	6 (19%)
Somewhat confident	14 (47%)	16 (52%)	12 (39%)	7 (23%)
Very confident	8 (27%)	5 (16%)	3 (10%)	1 (3%)
Don't know / Not sure	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Not applicable / Don't include in my teaching	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Column n	30	31	31	31

Filter: Teachers only + not selected 'Not applicable' + State funded secondary schools; Unweighted; base n = 30-31

For each of the following academic and vocational science pathways, please tell us which you are aware of and advocate to your students.

	Established Leaving Certificate	Leaving Certificate Vocational Programme	Leaving Certificate Applied	International Baccalaureate
Not aware	1 (3%)	2 (6%)	0 (0%)	11 (35%)
Aware but don't advocate	1 (3%)	16 (52%)	13 (42%)	13 (42%)
Aware and advocate to my students	29 (94%)	10 (32%)	15 (48%)	1 (3%)
Don't know / Not sure	0 (0%)	3 (10%)	3 (10%)	6 (19%)
Column n	31	31	31	31

	Advanced Apprenticeships	Apprenticeship	Further Education Courses	Undergraduate degree
Not aware	14 (45%)	7 (23%)	6 (19%)	3 (10%)
Aware but don't advocate	8 (26%)	9 (29%)	6 (19%)	4 (13%)
Aware and advocate to my students	2 (6%)	9 (29%)	15 (48%)	24 (77%)
Don't know / Not sure	7 (23%)	6 (19%)	4 (13%)	0 (0%)
Column n	31	31	31	31

Filter: Teachers, Republic of Ireland only + State funded secondary schools; Unweighted; base n = 31

What are the barriers, if any, that prevent you from advocating for vocational pathways to your students?

	%
Lack of detailed knowledge about the pathways	0 (0%)
Lack of funding	0 (0%)
Lack of local availability of courses	0 (0%)
Lack of local availability of placements	0 (0%)
School is focused on academic pathways	1 (100%)
Don't know / Not sure	0 (0%)
Other	0 (0%)
There are no barriers	0 (0%)
Column n	1*

Filter: Teachers, Not advocated to any vocational pathways only + State funded secondary schools; Unweighted; base n = 1. *Small sample size.

What are the barriers for you working with external organisations to deliver outreach activities to your students?

	%
Limited time	25 (81%)
Funding	16 (52%)
Student behaviour	5 (16%)
Lack of support and encouragement from senior leaders	7 (23%)
Lack of interest / engagement from local organisations, companies etc	7 (23%)
Safeguarding concerns	4 (13%)
Lack of awareness of opportunities	12 (39%)
I don't see the benefits for students	1 (3%)
Lack of my time to organise	20 (65%)
Lack of time within the school day to enable this	18 (58%)
Other priorities/pressures (eg Ofsted)	4 (13%)
Lack of interest / engagement from local organisations, companies etc	0 (0%)
Column n	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

Section G

Digital technology

Summary

Teachers across the nations appear to have comparable levels of access to digital technology.

90% of teachers in the Republic of Ireland agree or strongly agree that they can use digital technology when needed and 58% agree or strongly agree that they are confident in using digital tools.

Despite the highest level of access to digital technology across the nations, 29% of teachers never use digital tools in their science lessons.

Have you ever used AI within your role?

	%
Yes	23 (74%)
No	8 (26%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

Which of the following AI-powered tools or technologies (if any) have you used or experimented with in your teaching practice?

	%
Grammarly	4 (17%)
magic.ai	4 (17%)
Teachermatic	0 (0%)
Teachmateai	0 (0%)
Riffbot	0 (0%)
Revisely	0 (0%)
Copilot	5 (22%)
ChatGPT	23 (100%)
DALL-E 3	2 (9%)
Oak Aila lesson planning tool	0 (0%)
Google Bard	3 (13%)
Other, please provide	3 (13%)
Column n	23*

Filter: Have used AI + State funded secondary schools; Unweighted; base n = 23. *Small sample size.

To what extent do you agree with the following statement? I am able to use digital technology (e.g. computer room / tablets / laptops / WiFi) when needed.

	%
Strongly agree	19 (61%)
Agree	9 (29%)
Neither agree nor disagree	1 (3%)
Disagree	2 (6%)
Strongly disagree	0 (0%)
Don't know / Not sure	0 (0%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

How often does your department use digital tools in your lessons, e.g. light gates, digital microscopes?

	%
Every week	7 (23%)
Once a topic (where relevant)	10 (32%)
Once a term	4 (13%)
Never	9 (29%)
Don't know / Not sure	1 (3%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

To what extent do you agree with the following statement? I am confident in using digital tools in my teaching.

	%
Strongly agree	11 (35%)
Agree	7 (23%)
Neither agree nor disagree	4 (13%)
Disagree	5 (16%)
Strongly disagree	3 (10%)
Don't know / Not sure	0 (0%)
Column n	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

Section H

Additional support and resources

Summary

48% of teachers somewhat or strongly agree that students with SEND/ALN have access to the support and resources needed to engage in science lessons comparably with their peers. Similarly, 45% of teachers somewhat or strongly agree that students with SEND/ALN have access to support and resources needed to participate in all practical activities in science lessons.

84% of respondents felt that more teaching assistant support would improve the equitable experience of students with SEND/ALN in science lessons.

How far do you agree with the following statements?

	Students with SEND/ALN have access to any additional support/resources needed to engage in science lessons comparably to their peers	Students with SEND/ALN have access to any additional support/resources needed to participate in all practical activities in science lessons
Strongly agree	2 (6%)	3 (10%)
Somewhat agree	13 (42%)	11 (35%)
Neither agree nor disagree	8 (26%)	3 (10%)
Somewhat disagree	5 (16%)	9 (29%)
Strongly disagree	3 (10%)	4 (13%)
Don't know / Not sure	0 (0%)	1 (3%)
Column n	31	31

Filter: Teachers only + State funded secondary schools; Unweighted; base n = 31

For your school/department, what would improve the equitable experience of students with SEND/ALN in science lessons?

	%
More teaching assistant support	26 (84%)
Specialist practical equipment (materials, ear defenders, quiet classroom areas etc)	13 (42%)
More training on specific strategies for SEND/ALN students	20 (65%)
Teaching resources that are accessible for SEND/ALN learners	19 (61%)
Specialist technology	9 (29%)
Other	0 (0%)
Column n	31

Filter: State funded secondary schools; Unweighted; base n = 31

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