

Discover support and plan for the next stage of your teaching career

TECHNOLOGY MATHS **SCIENCE ENGINEERING**

Professional development to improve your teaching of STEM subjects

We've listened to the challenges you face accessing professional development - workload, lack of time, geographical restrictions, covering your classes and more. That is why we have developed evidence-based CPD that gives you greater choice than ever before.

We know you have limited time so you want to spend it wisely. We have years of experience and data that show the hugely positive impact our CPD courses have on teachers, technicians and students.



Why choose STEM Learning for your professional development?

CAREER PROSPECTS

Teachers who engage in STEM Learning CPD are 155% more likely to remain within the profession

EDUCATION EXPERTS

All courses are written and delivered by education experts who have qualified through our professional development leadership programme

DEVELOPMENT FRAMEWORKS

All courses are aligned to teachers' wider professional development frameworks, including the Early Careers Framework and National Professional Qualification in Leading Teaching

SUPPORT & COMMUNITY

All of our CPD includes wraparound support before, during and after the course, including peer-to-peer support via our STEM Community

What our learners say

"All staff and session leaders were excellent and really helpful It was great to be able to get involved and act as the student to learn about the practicals."

"It was a great experience and the whole course ran very smoothly, everyone was very friendly and knowledgeable. A big thank you to everybody involved - I hope to return for more training in the future."

"It was really useful, gave me lots to think about and process. Looking forward to implementing what I can.'



Find out more For more information visit stem.org.uk/secondary/cpd

How you can learn with us



Residential CPD

Courses at the National STEM Learning Centre in York recreate the classroom environment. On-site accommodation and catering allow you to focus on your learning.

Face to face near you

One- or two-day Face to face courses take place at venues across England, including Birmingham, Bristol and the south-west, London, Manchester, south-east and York.



If your challenge is something more specific, we can support you in a wide range of areas, from audits and secondary STEM curriculum development to incorporating practical work in the primary classroom. This is more in-depth support and may come in the form of advisory, mentoring, coaching or signposting; whatever works best for you.

Email enquiries@stem.org.uk for more details



CPD subscriptions can provide a costeffective way for schools and trusts to engage with STEM Learning. Helping your school or group of schools access multiple courses across multiple STEM subjects.

Email enquiries@stem.org.uk for more details



Led by education experts, these shorter sessions allow you to focus on specific areas of STEM teaching from wherever you are.

Online courses



Learn wherever and whenever suits you. Build subject knowledge, access real classroom footage and reflect to improve your teaching practice and maximise your students' learning.

Science

From ECT to head of science, from key stage 3 to core science, our fantastic range of CPD for science teachers has you covered.

To develop our science teaching CPD, we have matched the needs against the Science Leadership Benchmarks which allow you to improve your teaching once you have measured your impact so you can plan effective improvement in your department.

In addition, we are also proud to continue to offer our range of Face to face professional development opportunities to support teachers of science with the mathematics content within their subject, designed to develop shared approaches and improve mathematics subject knowledge and pedagogy across your setting.

Science Leadership Benchmarks



The Science Leadership Benchmarks were developed by STEM Learning and were based on an independent review of research and evidence led by the Centre for the Use of Research and Evidence in Education (CUREE).

Piloted by 10 primary and secondary schools, the seven benchmarks are a framework for good science leadership developed to support primary and secondary schools in providing students with the best possible science education.

The benchmarks identify what 'good' looks like and outline a framework of benchmarks that you can use to improve science provision in your school.

Subject Knowledge for Physics Teaching



Blended learning CPD for key stage 3 and key stage 4 teachers teaching physics without a physics specialism.

Further support

TEACHING RESOURCES

Including the Best Evidence in Science Teaching resources, resources to support the Good practical Science benchmarks and our space resources in our ESERO collection.

STEM CLUBS

A chance for young people to explore science in less formal settings.

CAREER

From career profiles, posters, videos and information packs, our science careers support contains a wealth of resources and information to help you bring careers learning to life.

STEM AMBASSADORS

Can help to bring your subject alive and provide real-life examples of industry careers, facilitating an invaluable link between schools and industry.

Science



SEARCH – All of our secondary CPD courses

Reaching for grade 9 in science Secondary science for non-scientists Secondary science leadership Secondary science leadership Secondary science leadership Secondary science leadership Secondary science leadership in secondary science Secondary science leadership in secondary science Secondary science leadership in secondary science Secondary science structure in secondary science Secondary science structure in secondary science Secondary science structure in secondary science Secondary science science science science Secondary science scien	Course title	Code	Start date	Delivery
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Developing your leadership through the Science Leadership Benchmarks SL219 Various Face to face New and aspiring heads of science Practical work in challenging settings SL218 Various Face to face SL256 Various Face to face Managing the practical classroom: secondary science NE208 Join today Online Effective ways to identify pre- and misconceptions in science NE250 Join today Online	Health and safety for science departments	SL253	Various	Face to fac
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Practical work in challenging settings SL218 Various Face to face t	Developing your leadership through the Science Leadership Benchmarks	SL219	Various	Face to fac
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Managing the practical classroom: secondary science Curriculum design for secondary school science NE209 Join today Online Effective ways to identify pre- and misconceptions in science NE250 Join today Online	Practical work in challenging settings	SL218	Various	Face to fac
Curriculum design for secondary school science NE209 Join today Online Effective ways to identify pre- and misconceptions in science NE250 Join today Online	Summer school for ECTs teaching science	SL256	Various	Face to fac
Effective ways to identify pre- and misconceptions in science NE250 Join today Online	Managing the practical classroom: secondary science	NE208	Join today	Online
	Curriculum design for secondary school science	NE209	Join today	Online
Assessment for learning through practical work NE251 Join today Online	Effective ways to identify pre- and misconceptions in science	NE250	Join today	Online
	Assessment for learning through practical work	NE251	Join today	Online

www.stem.org.uk

Science

Course title	Code	Start date	Delivery
Improving teaching through observation	NE253	Join today	Online
Leading practical work	NE260	Join today	Online
Leading collaboration in curriculum planning	NE261	Join today	Online
SEND: Supporting learners with ADHD in science	NE267	Join today	Online
SEND: Supporting learners with dyslexia in science	NE268	Join today	Online
SEND: Supporting sight impaired learners in science	NE269	Join today	Online
Using exam analysis to improve student performance	NE270	Join today	Online
Revising effectively for science GCSE exams	NE271	Join today	Online
Preparing students for 6-mark exam questions in science	NE272	Join today	Online
Supporting students to answer GCSE exam questions in science	NE273	Join today	Online
The science of learning	NE709	Join today	Online
Planning to maximise learning	NE710	Join today	Online
Assessment for learning	NE711	Join today	Online
GCSE science exam preparation online course package	NE902	Join today	Online
Biology			
New to A level biology	SL550	14/01/2025	Residential
Teaching to succeed at GCSE biology	SL204	22/01/2025	Residential
Established teachers of A level biology	SL501	11/03/2025	Residential
New to A level biology	SL550	24/04/2025	Residential
New to A level biology	SL550	01/05/2025	Residential
Teaching to succeed at GCSE biology	SL204	21/05/2025	Residential
Established teachers of A level biology	SL501	10/07/2025	Residential
Maths for A level biology	SL284	Various	Face to face
New to teaching GCSE biology	SL215	Various	Face to face
Summer school for ECTs teaching A level biology	SL257	Various	Face to face
Teaching biology: inspiring students with plant science	NE206	Join today	Online
Teaching practical science: biology	NE707	Join today	Online
Chemistry			
Chemistry for non-specialists	01.000	04/12/2024	Residential
Chemistry for mon-specialists	SL322	04/12/2024	residential
Teaching to succeed at GCSE chemistry	SL322 SL205	06/01/2025	Residential

Course title	Code	Start date	Delivery
Established teachers of A level chemistry	SL500	03/03/2025	Residential
Chemistry for non-specialists	SL322	05/03/2025	Residential
New to A level chemistry	SL551	20/03/2025	Residential
SKE for teaching A level chemistry immersive course	SL504	07/04/2025	Residential
Chemistry for non-specialists	SL322	06/05/2025	Residential
New to A level chemistry	SL551	02/06/2025	Residential
Established teachers of A level chemistry	SL500	10/07/2025	Residential
Teaching to succeed at GCSE chemistry	SL205	14/07/2025	Residential
Chemistry for non-specialists	SL322	23/07/2025	Residential
Maths for A level chemistry	SL297	Various	Face to face
New to teaching GCSE Chemistry	SL216	Various	Face to face
Summer school for ECTs teaching A level chemistry	SL258	Various	Face to face
Teaching practical science: chemistry	NE705	Join today	Online
Physics			
New to A level physics	SL552	07/11/2024	Residential
New to A level physics	SL552	07/01/2025	Residential
Established teachers of A level physics	SL502	03/02/2025	Residential
New to A level physics	SL552	20/03/2025	Residential
Teaching to succeed at GCSE physics	SL206	25/03/2025	Residential
Physics for non-specialists	SL201	02/04/2025	Residential
SKE for teaching A level physics immersive week	SL503	07/04/2025	Residential
Intensive physics for non-specialists week	SL209	07/04/2025	Residential
Established teachers of A level physics	SL502	06/05/2025	Residential
Physics for non-specialists	SL201	19/05/2025	Residential
New to A level physics	SL552	02/06/2025	Residential
Physics for non-specialists	SL201	14/07/2025	Residential
Teaching to succeed at GCSE physics	SL206	15/07/2025	Residential
Maths for A level physics	SL294	Various	Face to face
New to teaching GCSE physics	SL217	Various	Face to face
Summer school for ECTs teaching A level physics	SL259	Various	Face to face
Teaching practical science: physics	NE706	Join today	Online

Science technicians

Science technicians play an essential role in supporting the implementation of the science curriculum. Our support will help you at various career stages and will help to develop networks, share practice and improve science provision.

Our support for technicians aims to:

- develop confidence through building a secure subject knowledge
- develop the skills required to support high-performing science departments
- provide network opportunities for technicians to share practice and work collaboratively with peers



Science technicians

Course title	回系统制度数量	Code	Start date	Delivery
Skills for new technicians – zero to hero in 5 days		SL602	21/10/2024	Residential
Experienced technicians supporting: chemistry 11-16		SL605	11/11/2024	Residential
Experienced technicians supporting: physics 11-16		SL606	25/11/2024	Residential
Skills for new technicians – zero to hero in 5 days		SL602	27/01/2025	Residential
Experienced technicians supporting: physics 11-16		SL606	03/02/2025	Residential
Experienced technicians supporting: chemistry 11-16		SL605	24/03/2025	Residential
Experienced technicians supporting: biology 11-16		SL604	22/04/2025	Residential
Technicians supporting post-16 physics		SL642	08/05/2025	Residential
Skills for new technicians – zero to hero in 5 days		SL602	12/05/2025	Residential
Experienced technicians supporting: biology 11-16		SL604	02/06/2025	Residential
Experienced technicians supporting: physics 11-16		SL606	23/06/2025	Residential
Technicians supporting post-16 biology		SL641	26/06/2025	Residential
Experienced technicians supporting: chemistry 11-16		SL605	01/07/2025	Residential
Technicians supporting post-16 physics		SL643	08/07/2025	Residential
Technicians supporting: biology 11-16		SL614	Various	Face to face
Technicians supporting: chemistry 11-16		SL615	Various	Face to face
Technicians supporting post-16 physics		SL610	Various	Face to face
Technicians supporting post-16 biology		SL611	Various	Face to face
Technicians supporting post-16 chemistry		SL609	Various	Face to face

Further support we offer

Technicians supporting: physics 11-16

Good Practical Science benchmarks – launched in September 2017 by Sir John Holman which provide a framework with a series of 10 benchmarks for you to use when planning your own approach to delivering practical science.

STEM CLUBS

A chance for young people to explore science in less formal settings. We can support you in planning and deliver STEM Club sessions to help to ignite new interest and to raise attainment in science subjects.

CAREERS

From career profiles, posters, videos and information packs, our science careers support contains a wealth of resources and information to help you bring careers learning to life.

SL616

Various

Face to face

SEARCH – All of our secondary CPD courses

STEM AMBASSADORS

A fantastic volunteer programme for science technicians and other STEM professionals. Sign up to deliver talks, create STEM Clubs or gain inspiration for your own work to support students further.

Mathematics

Professional development for teachers of mathematics, from ECT to head of mathematics, from key stage 3 to core maths, our fantastic range of CPD for mathematics teachers has you covered.

In addition, we are also proud to continue to offer our range of Face to face professional development opportunities to support teachers of science with the mathematics content within their subject, designed to develop shared approaches and improve mathematics subject knowledge and pedagogy across your setting.

Further support we offer

TEACHING RESOURCES

We host over 14,000 freely available, quality-assured classroom resources to help you inspire young people about mathematics, including the SMILE Cards, the Standards Units, GAIM, Graphing Stories and many more.

STEM CLUBS

These include a range of resources to excite and inspire, as well as handbooks, webinars and videos to support you at every stage and help inspire students to fully engage with your mathematics lessons and beyond.

CAREERS

Our mathematics careers support contains a wealth of resources and information to help you bring career learning to life. Destination STEM also provides students with direct support, advice and opportunities to help explore pathways into STEM careers.

STEM AMBASSADOR PROGRAMME

Can help to bring your subject alive and provide real-life examples of industry careers, facilitating an invaluable link between schools and industry.

Mathematics



SEARCH - All of our secondary CPD courses

Course title	Code	Start date	Delivery
New and aspiring leaders of mathematics	SL450	25/11/2024	Residential
Developing shared approaches to maths in science and science in maths	SL456	09/12/2024	Residential
New and aspiring leaders of mathematics	SL450	29/01/2025	Residential
Core Maths for teachers of science	SL464	02/06/2025	Remote
New and aspiring leaders of mathematics	SL450	30/06/2025	Residential
Developing shared approaches to maths in science and science in maths	SL456	01/07/2025	Residential
Core Maths for teachers of psychology	SL462	01/07/2025	Remote
Core Maths for teachers of geography	SL463	02/07/2025	Remote
New to Core Maths Summer School	SL457	04/08/2025	Residential
Improving mathematics in key stage 3	SL451	Various	Face to face
Teaching post 16 GCSE mathematics resit	SL452	Various	Face to face
Teaching mathematics GCSE content with understanding	SL453	Various	Face to face
Building confidence as an ECT mathematics teacher	SL454	Various	Face to face
New to teaching Core Maths	SL455	Various	Face to face
Teaching mathematics as a non-specialist	SL458	Various	Face to face
Using manipulatives to enhance understanding in secondary mathematics	SL459	Various	Face to face
Teaching Core Maths as a non-specialist	SL460	Various	Face to face





Engineering

We have a brand new suite of engineering courses, developed by subject experts. Whether you're a technician, new to teaching the subject or you're the lead for engineering in your school, we have the perfect professional development course for you.

TEACHING RESOURCES

STEM Learning hosts over 14,000 freely available, quality-assured classroom resources to help you inspire young people in the classroom. Check out our favourite engineering resources from the collection to help bring the subject to life into your secondary school.

CAREERS

Bring engineering careers to life for your students with a range of resources, from career profiles and posters to videos and information packs. Our careers homepage also includes helpful toolkits and careers information to support you contextualise learning.

STEM AMBASSADOR PROGRAMME

STEM Ambassadors can help to bring your subject alive and provide real-life examples of industry careers, facilitating an invaluable link between schools and industry.

Engineering

Course title	Start date	Delivery
Engineering for technicians	Various	Remote
Health & safety for teaching engineering	Various	Face to face
Leading engineering in your school	Various	Remote
Manufacturing – subject knowledge and practice for teaching engineering	Various	Face to face
New to teaching engineering	Various	Remote
Solving problems: Teaching engineering design	Various	Remote
Teaching mechanical, electrical and electronic engineering systems	Various	Face to face

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Digital skills

It's vital that students are taught digital skills, especially given their importance in helping young people prepare for the transition from school to employment and the wider world. Our CPD courses for teachers equip them with the skills and confidence to teach digital skills.

With the UK Government's Digital Strategy now firmly embedded, the need for digital skills is growing, and so is our support for schools.

Digital skills



SEARCH - All of our secondary CPD courses

Course title	Code	Start date	Delivery
Digital skills: cyber security	SL950	02/10/2024	Residential
How to use AI to reduce teacher workload	SL902	02/10/2024	Remote
3D modelling and animation using Blender	SL952	04/11/2024	Remote
Developing augmented reality (AR) products	SL951	05/11/2024	Remote
Creating media with free and open source software	SL953	07/11/2024	Remote
3D modelling and animation using Blender	SL952	04/12/2024	Remote
Digital skills: cyber security	SL950	08/01/2025	Residential
Digital skills: cyber security	SL950	15/05/2025	Residential

Further support we offer

TEACHING RESOURCES

We host over 14,000 freely available, quality-assured classroom resources to help you inspire young people about digital skills, including The Grand Challenges, Digital Innovation and Robotics.

STEM CLUBS

These include a range of resources to excite and inspire, as well as handbooks, webinars and videos to support you at every stage and help inspire students to develop their digital skills.

CAREERS

Careers support contains a wealth of resources and information to help you bring career learning to life. Destination STEM also provides students with direct support, advice and opportunities to help explore pathways into STEM careers.

STEM AMBASSADOR PROGRAMME

Can help to bring your subject alive and provide real-life examples of industry careers, facilitating an invaluable link between schools and industry.





After attending our 'Physics for non-specialists' course, a participant said:

"Thank you for an excellent first CPD experience.
Our course leader was fab, and provided us with brilliant resources. I not only learned subject-specific knowledge, but as a new teacher, I also learned many engagement, assessment and pedagogical tools."



Access our full range of support at www.stem.org.uk/secondary/CPD

