

# Secondary Science CPD Programme 2023 - 2024

An exciting programme of high quality, cost-effective continuing professional development from your local Science Hub.

**To book your place on a course, search for the course code listed at [www.stem.org.uk/cpd/search](http://www.stem.org.uk/cpd/search) or click on the course code link. If online booking has closed, contact to [slp.admin@hertsandessex.herts.sch.uk](mailto:slp.admin@hertsandessex.herts.sch.uk) to book your place.**

Please note, course fees are for state-maintained schools only and subsidies are available to eligible schools in our region.

Any questions? Contact [slp.admin@hertsandessex.herts.sch.uk](mailto:slp.admin@hertsandessex.herts.sch.uk)

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Quick links to courses:

[Biology courses](#)

[Chemistry courses](#)

[Physics courses](#)

[General Secondary Science courses](#)

[Technician courses](#)

[Networks](#)

[Subscription packages](#)

## Biology courses

Course title and venue	Information	Course code	Details
<b>Teaching Biology GCSE*</b>  Chelmsford College	For ECTs and Non-Biology Specialist teachers who are teaching Biology GCSE. Looking at key topics, identify common misconceptions and how to address these, share helpful resources and teaching strategies through modelling the best Biology specific pedagogy.	<a href="#">RH298 E81</a>	27/03/24  9.30-3.30pm  <i>Course fee: £200</i>
<b>Maths for A Level Biology</b>  Remotely delivered	At least 10% of the marks in A Level Biology require the use of mathematical skills. This online course is for Biology teachers who want to increase their understanding of the maths required to successfully teach A Level Biology.	<a href="#">RH298 B301</a>	27/03/24  3-4.30pm  <i>Course fee: £40</i>
<b>New to Teaching A Level Biology**</b>  Face to Face  Hertfordshire & Essex High School	An intense 2 day course for those teaching KS5 Biology for the first time, and who are looking for some new ideas to tackle the most common misconceptions and to achieve the best student outcomes. Over the multiple sessions you will focus on the core topics, common misconceptions and how to best overcome these.	<a href="#">RH298 B207</a>	04/06/24 13/06/24  10.15-4pm  <i>Course fee: £400</i>
<b>Introducing the AQA Environmental Science Focus on Success pack</b>  Remotely delivered	These packs are teacher training materials with a PowerPoint presentation and supporting activity booklets for you to deliver to your team in-house. This session will introduce the Environmental Science pack and take you through some of the key skills that are covered (such as extended writing and maths) to help you support your students with their exam skills.	<a href="#">RH298 E87</a>	09/05/24  2-4pm  Course fee: FREE

# Secondary Science CPD Programme 2023 - 2024

## Chemistry courses

Course title and venue	Information	Course code	Details
<b>GCSE Chemistry Required Practicals*</b>  Face to Face  Bishop's Hatfield Girls' School	For ECTs, teachers teaching out of their specialism and technicians. It provides teachers and technicians with top tips, trouble shooting of equipment, things that students find difficult conceptually and practically, misconceptions and how to address them, how to reduce cognitive load. Practical specific pedagogy so that practical work is carried out effectively and successfully, building teacher and student confidence.	<a href="#">RH298 B205</a>	3 sessions: 8/03/24 16/05/24 1/07/24  2-5pm  <i>Course fee: £250</i>
Course title and venue	Information	Course code	Details
<b>GCSE Chemistry Required Practicals*</b>  Face to Face  Kempston Academy	For ECTs, teachers teaching out of their specialism and technicians. It provides teachers and technicians with top tips, trouble shooting of equipment, things that students find difficult conceptually and practically, misconceptions and how to address them, how to reduce cognitive load. Practical specific pedagogy so that practical work is carried out effectively and successfully, building teacher and student confidence.	<a href="#">RH298 B311</a>	3 sessions: 6/02/24 27/02/24 26/03/24  1.30-4.30pm  <i>Course fee: £250</i>
<b>New to Teaching A Level Chemistry**</b>  Face to Face  Hertfordshire & Essex High School	An intense 2 day course for those teaching KS5 Chemistry for the first time and who are looking for some new ideas to tackle the most common misconceptions and to achieve the best student outcomes. Over the multiple sessions you will focus on the core topics, common misconceptions and how to best overcome these. While enhancing subject knowledge, the best pedagogical strategies and resources to maximise student outcomes will be shared.	<a href="#">RH298 B212</a>	12/06/24 19/06/24  10.15-3.45pm  <i>Course fee: £400</i>

# Secondary Science CPD Programme 2023 - 2024

## Physics courses

Course title and venue	Information	Course code	Details
<b>Teaching triple science Physics content*</b>  Remotely delivered	Develop the background subject knowledge required to help planning and teaching physics for key stage 4 (Triple Science). Start your Triple Science teaching with the tools and confidence to plan and teach effective learning for your physics classes. You will explore ways of building student understanding, taking into account misconceptions and common issues in teaching these concepts. Session1 - Electricity Session 2 - Electromagnetism Session 3 - Newton's Laws and Momentum	<a href="#">RH015 B01</a>	3 sessions: 2/10/23 29/01/24 22/04/24  3.45-4.45pm  <i>Course fee: £100</i>
<b>GCSE Physics Required Practicals*</b>  Face to Face  Putteridge High School	For ECTs, teachers teaching out of their specialism and technicians. This course provides teachers and technicians with some top tips, trouble shooting of equipment, things that students find difficult conceptually and practically, misconceptions and how to address them, how to reduce cognitive load. Practical specific pedagogy so that practical work is carried out effectively and successfully, building teacher and student confidence. Session 1 - motion and waves Session 2 - heat Session 3 - electricity and density	<a href="#">RH298 B206</a>	3 sessions: 6/10/23 TBC 17/05/24  1-4pm  <i>Course fee: £250</i> <i>Free to SPN schools</i>
<b>GCSE Physics Required Practicals*</b>  Face to Face  Great Baddow High School	For ECTs, teachers teaching out of their specialism and technicians. This course provides teachers and technicians with some top tips, trouble shooting of equipment, things that students find difficult conceptually and practically, misconceptions and how to address them, how to reduce cognitive load. Practical specific pedagogy so that practical work is carried out effectively and successfully, building teacher and student confidence. Session 1 - Electricity & density Session 2 - Energy – heat transfer Session 3 - Forces & waves	<a href="#">RH298 E72</a>	3 sessions: 21/11/2023 19/03/2024 09/07/2024  1.30-4.30pm  <i>Course fee: £250</i> <i>Free to SPN schools</i>

## Secondary Science CPD Programme 2023 - 2024

<b>Teaching Physics GCSE*</b>  Face to Face  Putteridge High School	This course is for ECTs and non-Physics Specialist teachers who are teaching Physics GCSE. In this course we will look at the key topics, identify common misconceptions and how to address these, share helpful resources and teaching strategies through modelling the best Physics specific pedagogy. You will go away more confident in your subject knowledge and armed with resources and T&L strategies to use in the classroom the next day.	<a href="#">RH298 B215</a>	22/03/24  9-3pm  <i>Course fee: £250</i>
<b>New to Teaching A Level Physics**</b>  Face to Face  Leventhorpe School	An intense 2 day course for those teaching KS5 Physics for the first time, and those who are looking for some new ideas to tackle the most common misconceptions and to get the most out of practical work. You will focus on the core topics, common misconceptions and how to best overcome these. Mathematical skills and practical skills will be embedded throughout the course to allow students of all abilities to succeed.	<a href="#">RH298 B208</a>	01/07/24 12/07/24  9-3pm  <i>Course fee: £400</i>

### General Secondary Science Courses

Course title and venue	Information	Course code	Details
<b>Essential skills for leading your team****</b>  Face to Face  Chelmsford venue tbc	Whether you are an aspiring science leader, new in the role, or wanting to reflect on your leadership practice, this course is designed to provide the strategies and techniques you will need to be successful. Mapped to the NPQLT framework, the course will provide a solid foundation for those wishing to continue their leadership journey further. The course focuses on two key themes: developing essential leadership skills and leading teaching. Bridging each theme, you will also be provided with skills and knowledge development to help you reflect on and consolidate your role.	RH298 B213	1/03/24 25/03/24  9-3pm  <i>Course fee: £200</i>
<b>Secondary Teacher Conference****</b>	Our annual conference is an opportunity for Heads of Science, Biology/Chemistry/Physics Subject Leads, Key Stage 3/4 co-ordinators	<a href="#">RH227 B08</a>	23/05/24  9-3.30pm

# Secondary Science CPD Programme 2023 - 2024

Face to Face University of Bedfordshire, Bedford Campus	and teachers of Science to explore the key issues affecting science education, through a series of presentations and workshops. Network, share and develop ideas and discuss best practice.		<i>Course fee: £100</i>
<b>Secondary Teacher Conference ****</b> Face to Face Harlow College	Our annual conference is an opportunity for Heads of Science, Biology/Chemistry/Physics Subject Leads, Key Stage 3/4 co-ordinators and teachers of Science to explore the key issues affecting science education, through a series of presentations and workshops. Network, share and develop ideas and discuss best practice.	<a href="#">RH227 E12</a>	02/07/24 9-3pm <i>Course fee: £100</i>

## Technician courses

Course title and venue	Information	Course code	Details
<b>Online technician network ***</b> Remotely delivered	This vibrant network of technicians is the place to go for advice and to share ideas and learn about the latest guidance for technicians. The termly meetings are led by Dr. Sam Ward (RSciTech), Science Technician at The Thomas Alleyne Academy.	<a href="#">RH607 B170</a>	11/10/23 7/02/24 22/05/24 10-11am <i>Course fee: £90</i>
<b>Science Tech Fest - Beds ***</b> Face to Face Glebe Farm School, Milton Keynes	This day is an opportunity for technicians to have some hands on practical training and to network with other technicians. There will also be an opportunity to visit our market place of exhibitors.	<a href="#">RH606 B04</a>	06/06/24 10-2pm <i>Course fee: £100</i>
<b>Science Tech Fest Essex ***</b> Face to Face Anglia Ruskin University, Chelmsford	An opportunity for Technicians to have some hands on practical training and to network with other Technicians. There will also be an opportunity to visit our market place of exhibitors.	<a href="#">RH298 E80</a>	20/06/24 10.30-4pm <i>Course fee: £100</i>
<b>Technician Network and Timstar Demonstration***</b>	An opportunity for technicians to network, plus demonstrations from Matt Blake at Timstar. Matt will be joined by the Ohaus	<a href="#">RH607 B174</a>	12/07/24 12-3pm

# Secondary Science CPD Programme 2023 - 2024

Face to Face	balance rep who will demonstrate balance calibrations, and connections with new pH probe and balance to the computer. He'll also bring the new BMS range of microscopes for the technicians to have a look at.		<i>Course fee:</i>
The Thomas Alleyne Academy			

## Networks

Network title and venue	Information	Course code	Details
<b>Leaders of Science Online Network for N&amp;E Herts, Essex, Beds and MK ****</b>	An opportunity to meet and network with other Heads of Science and Science Subject Leads, to discuss and share ideas of how to overcome the challenges you face, share successes and resources. Termly meetings are led by the dynamic and inspiring Nana Asante-Ansong Head of Science at Bishops Hatfield Girls School. Our first meeting will focus on analysing exams data and how it will inform action planning for the year ahead.	<a href="#">RH219 B54</a>	TBC 07/03/24 26/06/24  4-5pm  <i>Course fee: £90 (£50 subsidy)</i>
Remotely delivered			

## Subscription packages

Starred courses are part of a subscription package. If your school is subscribed please use your discount when booking so that your school is not charged for attending the course. If you would like to subscribe, please contact [slp.admin@hertsandessex.herts.sch.uk](mailto:slp.admin@hertsandessex.herts.sch.uk)

\* Science Subject Knowledge Enhancement School Package KS4

\*\* Science Subject Knowledge Enhancement School Package KS4/KS5 (includes \* courses plus \*\*)

\*\*\* Science Technician Subscription Package

\*\*\*\* New and aspiring Leaders of Science Package