The STEM HUB

SCIENCE LEARNING PARTNERSHIP

COURSE BROCHURE

January to March 2021

SCIENCE LEARNING PARTNERSHIP

Canterbury Christ Church University

WELCOME

STEM Learning's vision is a world-leading STEM (Science, Technology, Engineering, and Maths) education for every young person in the UK. This vision combines knowledge-rich and effective teaching, thinking, investigative, creative and practical skills.

STEM subjects are seen as critically important to the UK's future economic success post COVID-19. STEM Learning is a UK-wide organisation and the largest provider of education and careers support in STEM. We work with thousands of schools, colleges and employers to promote all aspects of STEM to young people, so they are more likely to choose STEM careers in the future, while ensuring industries that employ STEM-educated role models (STEM Ambassadors), are meaningfully linked to schools, to inspire a new generation, giving young people the future skills they need.

Investing in science and computing teachers is crucial to the overall vision. STEM Learning helps teachers and teaching support staff to access high quality continuing professional development (CPD) that has demonstrated measurable impact on teachers, their students and their schools. Teachers can access CPD support through intensive residential CPD, local sessions from our unique UK-wide Science Leaning Partnership (SLP) network and National Centre for Computing Education (NCCE) Computing Hub network plus a number of online formats.

Quality CPD has been shown to encourage teacher retention: science teachers are 160% more likely to remain in the profession if they take part in our CPD, rising to 190% for newly qualified teachers.

STEM Learning delivers over 50,000 days of CPD each year. The challenges COVID-19 has created led STEM Learning to drive forward new remote and online CPD support for teachers and support staff, helping teaching staff become more confident, supporting their well-being, in addition to helping them teach more effectively in the classroom improving outcomes for young people.

We hope that you will be able to utilise this support that the SLPs in the South East, London and South West, along with the NCCE Computing Hubs and the STEM Ambassador Hubs are able to provide and help us to continue to support schools and colleges by increasing the awareness of the excitement and opportunities a career in STEM can bring to all young people, irrespective of background and gender.

Heidi Foxford, Shelley Hancock and Dr Ajay Sharman
Regional Leads for STEM Learning Ltd

OVERVIEW OF SLPS ACROSS SOUTH OF ENGLAND

As schools face the challenges of reopening, your local SLPs are here to support you. Working with our colleagues across the South, we are really pleased to be able to offer you a large range of remote courses this term.

Our facilitators are committed to deliver affordable CPD that meets your needs and has a positive impact for both teachers and students. In addition to the online courses advertised, we will be holding regular teacher network meetings to discuss current issues and share good practice.

We look forward to meeting teachers at our future events and if possible, please share this CPD information with colleagues. It is only through your support that we can offer these courses at reduced prices and please do not hesitate to contact us should you require more bespoke training for your department or school.

CONTENTS

Welcome to SLP's located across South of England

Cornwall SLP
Truro and Penwith College, TR1 3XX
E: cornwall-slp@truro-penwith.ac.uk
T: 01872 267000

Dorset & South Wiltshire SLP
Queen Elizabeth's School, BH21 4DT
E: mhoward@queenelizabeths.com
T: 01202 885233

Sussex SLP
Downlands Academy, BN6 8LP
E: SussexSLP@downlands.org
T: 01273 845892

Central & West London SLP
Westminster Academy, W2 5EZ
E: a.memon@westminsteracademy.org.uk
T: 02071 210600

Devon SLP
Broadclyst Community Primary School, EX5 3JG
E: phoebe.davies@tcat.education
T: 01392 461288

Hampshire & Isle of Wight SLP
St George Catholic School, SO16 3DQ
E: slp@stgcc.co.uk
T: 02380 322603

Kent & Medway SLP
Rainham Mark School, ME8 7AJ
E: thestemhub@canterbury.ac.uk
T: 01227 922662

North & East London SLP
Alexandra Park School, N11 2AZ
E: nelondon-slp@alexandrapark.school
T: 02088 264914

Somerset SLP
Somerset Partnership Teaching School (Fiveways School), BA21 5AZ
E: officespts@educ.somerset.gov.uk
T: 01935 411384

Surrey SLP
George Abbot School, GU1 1XX
E: gsutton@gepacademies.com
T: 01483 888047

South London SLP
Newstead Wood School, BR6 9SA
E: slp@newsteadwood.co.uk
T: 01689 853626 ext 336

South Central SLP
St Clement Danes School, WD3 6EW
E: enquiries@hertsandbuckstsa.co.uk
T: 01923 284169

PRIMARY

Teaching EYFS Science (Early Years)

This course will provide a manageable approach to planning and delivering EYFS science. Return to the classroom with the tools and confidence to plan and develop effective learning for children in your class. You will explore ways of bringing the EYFS experience to life through practical ideas and discussion tasks.

Outcomes

You will be able to:

- demonstrate good Early Years practice and exploit opportunities for science.
- know where your children are and plan for their next steps.
- develop the science capital of children in your class by exploiting opportunities in the wider community and working with families.

The course duration is 7 hours and is delivered with 4 hours of facilitated and 3 hours of participant gap tasks.

1st Instance
Course consists of 4 facilitated sessions, starting on:
TUESDAY 19 JANUARY at 15:30-16:30

Then follows as:
TUESDAY 26 JANUARY at 15:30-16:30
TUESDAY 02 FEBRUARY at 15:30-16:30
TUESDAY 09 FEBRUARY at 15:30-16:30

To book your place visit: https://bit.ly/teachingeyfssciencejan21

2nd Instance
Course consists of 4 faciliated sessions, starting on:
THURSDAY 25 FEBRUARY at 15:30-16:30
Then follows as:
TUESDAY 02 MARCH at 15:30-16:30
THURSDAY 11 MARCH at 15:30-16:30
THURSDAY 18 MARCH at 15:30-16:30

To book your place visit: https://bit.ly/teachingeyfssciencefeb21

Online Platform: Adobe Connect
Cost: Maintained School: £140 | Non-Maintained School: £280

Teaching Key Stage 1 Science (KS1)

This course will provide a manageable approach to planning and teaching primary science in key stage 1 (KS1). You will explore ways of bringing the KS1 curriculum to life through practical ideas and discussion tasks. Carefully planned gap tasks have been designed to enable you to develop and prepare effective learning opportunities for the children in your class.

Outcomes

You will be able to:

- create a manageable approach to teaching science in KS1
- identify children's gaps in science knowledge and understanding
- identify practical approaches to teaching subject-specific content in KS1
- describe common misconceptions and consider strategies for dealing with them

The course duration is 7 hours and is delivered with 4.5 hours of facilitated and 2.5 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
MONDAY 08 FEBRUARY at 15:30-17:45 (with 45-min break)

Then follows as:
THURSDAY 11 FEBRUARY at 15:30-16:30
MONDAY 22 FEBRUARY at 15:30-18:00 (with 30-minbreak)

To book your place visit: https://bit.ly/teachingkeystage1sciencefeb21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
MONDAY 29 MARCH at 15:30-17:45 (with 45-min break)
Then follows as:
TUESDAY 30 MARCH at 15:30-16:30
THURSDAY 01 APRIL at 15:30-18:00 (with 30-min break)

To book your place visit: https://bit.ly/teachingkeystage1sciencemar21

Online Platform: Adobe Connect
Cost: Maintained School: £140 | Non-Maintained School: £280

Teaching Lower KS2 Science (KS2)

Gain the tools and confidence to plan and enable effective learning for children in your class. This course will develop your approaches to planning and teaching primary science in lower KS2 and explore ways to bring the curriculum to life through practical ideas and discussion tasks.

Outcomes

You will be able to:

- create a manageable approach to teaching science in lower KS2
- identify and address gaps in children's science knowledge, skills & understanding
- plan practical approaches to teaching lower KS2 science
- be aware of some common misconceptions and consider strategies for dealing with them

The course duration is 6.5 hours and is delivered with 4.5 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 26 JANUARY at 15:30-17:30
Then follows as:
MONDAY 01 FEBRUARY at 15:30-16:30
THURSDAY 04 FEBRUARY at 15:30-17:30 (with 30-min break)

To book your place visit: https://bit.ly/teachinglowerks2sciencejan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
WEDNESDAY 10 MARCH at 15:30-17:30
Then follows as:
FRIDAY 12 MARCH at 13:30-14:30
FRIDAY 26 MARCH at 13:30-15:30 (with 30-min break)

To book your place visit: https://bit.ly/teachinglowerks2sciencemar21

Online Platform: Adobe Connect
Cost: Maintained School: £120 | Non-Maintained School: £240

"Thank you for the fabulous practical ideas you shared and all the information about how to address common misconceptions"

Kent & Medway SLP

Teaching Upper Key Stage 2 Science (KS2)

Gain the tools and confidence to plan and enable effective learning for your pupils. In this course you will explore ways to bring the KS2 curriculum to life through practical ideas and discussion tasks, as well as how to effectively develop a strategy for dealing with common misconceptions.

Outcomes

You will be able to:

- create a manageable approach to teaching science in upper KS2
- identify and address gaps in children's science knowledge, skills & understanding
- plan practical approaches to teaching upper KS2 science
- be aware of some common misconceptions and consider strategies for dealing with them

The course duration is 7 hours and is delivered with 4.5 hours of facilitated and 2.5 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
THURSDAY 14 JANUARY at 14:00-16:00 (with 20-min break)
Then follows as:
TUESDAY 19 JANUARY at 14:00-15:00
MONDAY 25 JANUARY at 14:00-16:00 (with 20-min break)

To book your place visit: https://bit.ly/teachingupperkeystage2sciencejan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 23 FEBRUARY at 15:30-17:30 (with 20-min break)
Then follows as:
TUESDAY 02 MARCH at 15:30-16:30
THURSDAY 04 MARCH at 15:30-17:30 (with 20-min break)

To book your place visit: https://bit.ly/teachingupperkeystage2sciencefeb21

Online Platform: Adobe Connect
Cost: Maintained School: £140 | Non-Maintained School: £280

"Honestly, the most impactful CPD I have done in my 2-year tenure as the Science subject.course leader was incredibly helpful + supportive"

South London SLP

Back to school Leading Primary Science

On returning to school pupils may have missed some core learning which will require the long-term curriculum map to be adjusted in the short-term. This course supports subject leaders to clearly define the curriculum across the school and enable them to effectively support teachers, implementing it successfully in the classroom.

Outcomes

You will be able to:

- identify key features of a successful curriculum
- take ownership of the intent of your science curriculum
- prepare your teachers to implement your science curriculum
- successfully carry out the key roles of a science subject leader to ensure successful implementation

The course duration is 7 hours and is delivered with 5 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 5 facilitated sessions, starting on:
TUESDAY 09 FEBRUARY at 08:00-09:00
Then follows as:
THURSDAY 11 FEBRUARY at 08:00-09:00
TUESDAY 23 FEBRUARY at 08:00-09:00
THURSDAY 25 FEBRUARY at 08:00-09:00
TUESDAY 02 MARCH at 08:00-09:00

To book your place visit: https://bit.ly/backtoschoolleadingprimarysciencefeb21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 23 MARCH at 09:00-11:30 (with 30-min break)
Then follows as:
TUESDAY 30 MARCH at 09:00-11:30 (with 30-min break)
TUESDAY 30 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/backtoschoolleadingprimarysciencemar21

Online Platform: Adobe Connect
Cost: Maintained School: £140 | Non-Maintained School: £280

Back to school Primary Science for NQTs

Be ready in September 2020 with the tools and confidence to plan and enable effective learning for children in your class. On this course you will explore the requirements of the primary science curriculum, improve your subject knowledge, plan exciting lessons and build your confidence in teaching practical science activities.

Outcomes

You will be able to:

- understand how to teach science effectively in the primary classroom
- build practical investigations into your science lessons, whilst supporting children's subject knowledge development
- know how to identify gaps in children's science skills, knowledge and understanding
- build self-confidence in teaching practical science activities & skills

The course duration is 6 hours and is delivered with 3.5 hours of facilitated and 2.5 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
MONDAY 25 JANUARY at 09:00-11:00
Then follows as:
THURSDAY 28 JANUARY at 09:00-10:00
TUESDAY 02 FEBRUARY at 09:00-11:00

To book your place visit: https://bit.ly/primaryscienceforngtsjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
MONDAY 8 MARCH at 15:00-17:30
Then follows as:
THURSDAY 11 MARCH at 15:00-16:30
MONDAY 15 MARCH at 15:00-17:00

To book your place visit: https://bit.ly/primaryscienceforngtsmar21

Online Platform: Adobe Connect
Cost: Maintained School: £120 | Non-Maintained School: £240

Effective transition between year 6 and year 7 in science

This course will be facilitated by two expert teacher practitioners, one primary and the other secondary and is suitable for both Primary and Secondary Science Teachers. The course will focus on how to establish effective transition between year 6 and year 7 in science. You will have the opportunity to consider the nature and content of the year 6 science curriculum, how to develop creative activities that build on prior learning and how to use diagnostic teaching to identify and address gaps in knowledge and skills. You will also evaluate case studies from a variety of sources that showcase effective strategies, techniques and activities to support transition between year 6 and year 7 in science. You will be able to discuss issues with teachers across phases.

Outcomes

You will be able to:

- Establish links between the year 6 and year 7 science curriculum and consider some of the issues around effective transition
- Develop strategies and techniques to differentiate lessons and support pupils in building a strong base of scientific knowledge and skills
- Evaluate case studies of transition between year 6 and 7 in science

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
WEDNESDAY 13 JANUARY at 15:00-16:00
Then follows as:
WEDNESDAY 20 JANUARY at 15:00-16:00
WEDNESDAY 27 JANUARY at 15:00-16:00

To book your place visit: https://bit.ly/effectivetransitionyr6yr7insciencejan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
WEDNESDAY 24 FEBRUARY at 16:00-17:00
Then follows as:
WEDNESDAY 03 MARCH at 16:00-17:00
WEDNESDAY 10 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/effectivetransitionyr6yr7insciencefeb21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

SECONDARY

BIOLOGY

Subject Knowledge Enhancement KS3 Biology

Designed to support teachers who are non-specialists, you will develop the background subject knowledge required to help planning and teaching biology for key stage 3. Gain the tools and confidence to plan and teach your biology classes effectively. You will explore ways of building student understanding, taking into account misconceptions and common issues in teaching these concepts.

Outcomes

You will be able to:

- develop an understanding of key concepts in key stage 3 biology
- identify common misconceptions students may have
- investigate teaching approaches to develop student knowledge and understanding

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
MONDAY 11 JANUARY at 16:15-17:15
Then follows as:
WEDNESDAY 13 JANUARY at 16:15-17:15
FRIDAY 15 JANUARY at 16:15-17:15

To book your place visit: https://bit.ly/skeks3biologyjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
MONDAY 01 MARCH at 16:15-17:15
Then follows as:
WEDNESDAY 03 MARCH at 16:15-17:15
FRIDAY 05 MARCH at 16:15-17:15

To book your place visit: https://bit.ly/skeks3biologymar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

BIOLOGY

Subject Knowledge Enhancement KS4 Biology

This course will provide subject knowledge to help in planning and teaching biology for Key Stage 4 (Coordinated Science and Triple Science) with a focus on the genome, genes and gene expression and cell division. Develop your biology teaching with the tools and confidence to plan and teach effectively, engaging your students and supporting their achievement and attainment. You will be supported to find ways to enhance students' learning skills. You will explore ways of building student understanding, taking account of preconceptions, misconceptions and common issues in teaching these biology concepts.

Outcomes

You will be able to:

- develop an understanding of key concepts in KS4 biology
- identify common preconceptions and misconceptions held by students
- investigate teaching approaches to develop student knowledge and understanding
- increase your confidence to plan and teach for more effective learning for GCSE biology students

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 09 FEBRUARY at 16:00-17:00
Then follows as:
MONDAY 22 FEBRUARY at 16:00-17:00
WEDNESDAY 24 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/skeks4biologyfeb21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
WEDNESDAY 24 MARCH at 16:00-17:00
Then follows as:
MONDAY 29 MARCH at 16:00-17:00
WEDNESDAY 31 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/skeks4biologymar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

BIOLOGY

Subject Knowledge Enhancement Biology Triple Science

Explore background subject knowledge to help planning and teaching biology for key stage 4 (Triple Science) with a focus on coordination and control. Start your Triple Science teaching with the tools and confidence to plan and teach effective learning for your biology classes.

Outcomes

You will be able to:

- develop an understanding of key concepts in KS4 biology
- identify common preconceptions and misconceptions held by students
- investigate teaching approaches to develop student knowledge and understanding
- increase your confidence to plan and teach for more effective learning for GCSE triple science biology students

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
MONDAY 25 JANUARY at 16:00-17:00
Then follows as:
TUESDAY 02 FEBRUARY at 16:00-17:00
WEDNESDAY 10 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/sketriplesciencebiologyjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
WEDNESDAY 10 MARCH at 16:00-17:00
Then follows as:
WEDNESDAY 17 MARCH at 16:00-17:00
WEDNESDAY 24 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/sketriplesciencebiologymar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

CHEMISTRY

Subject Knowledge Enhancement KS3 Chemistry

Develop subject knowledge to help planning and teaching chemistry for key stage 3. Aimed specifically at non-specialists, you will gain the tools and confidence to plan and teach your chemistry classes effectively. You will explore ways of building student understanding, taking into account misconceptions and common issues in teaching these concepts.

Outcomes

You will be able to:

- develop an understanding of key concepts in KS3 Chemistry
- identify common misconceptions students may have
- investigate teaching approaches to develop student knowledge and understanding

The course duration is 5 hours and is delivered with 2.5 hours of facilitated and 2.5 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
THURSDAY 14 JANUARY at 15:30-16:30
Then follows as:
THURSDAY 21 JANUARY at 15:30-16:30
THURSDAY 28 JANUARY at 15:30-16:30

To book your place visit: https://bit.ly/skeks3chemistryjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
THURSDAY 04 MARCH at 15:30-16:30
Then follows as:
THURSDAY 11 MARCH at 15:30-16:30
THURSDAY 18 MARCH at 15:30-16:30

To book your place visit: https://bit.ly/skeks3chemistrymar21

Online Platform: Zoom
Cost: Maintained School: £100 | Non-Maintained School: £200

CHEMISTRY

Subject Knowledge Enhancement KS4 Chemistry

Develop the background subject knowledge required to help planning and teaching chemistry for key stage 4. Gain the tools and confidence to plan and teach effective learning for your GCSE chemistry classes. You will explore ways of building student understanding, taking into account misconceptions and common issues in teaching these concepts.

Outcomes

You will be able to:

- develop an understanding of key concepts in KS4 Chemistry
- identify common misconceptions students may have
- investigate teaching approaches to develop student knowledge and understanding

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 09 FEBRUARY at 14:00-15:00
Then follows as:
TUESDAY 23 FEBRUARY at 14:00-15:00
TUESDAY 09 MARCH at 14:00-15:00

To book your place visit: https://bit.ly/skeks4chemistryfeb21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 23 MARCH at 10:00-11:00
Then follows as:
THURSDAY 25 MARCH at 10:00-11:00
THURSDAY 01 APRIL at 10:00-11:00

To book your place visit: https://bit.ly/skeks4chemistrymar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

"This course was great! I learned a lot and picked up many strategies that I would like to use in my lessons! thank you very much"

Cornwall SLP

CHEMISTRY

Subject Knowledge Enhancement: Chemistry Triple Science

Develop the background subject knowledge required to help planning and teaching Chemistry for Key Stage 4 (triple science). Gain the tools and confidence to plan and teach effective learning for your GCSE chemistry classes. You will explore ways of building student understanding, taking into account misconceptions and common issues in teaching these concepts.

Outcomes

You will be able to:

- develop an understanding of key concepts in the triple content of key stage 4 chemistry
- identify common misconceptions students may have
- investigate teaching approaches to develop student knowledge and understanding

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 26 JANUARY at 13:00-14:00
Then follows as:
TUESDAY 02 FEBRUARY at 13:00-14:00
TUESDAY 09 FEBRUARY at 13:00-14:00

To book your place visit: https://bit.ly/sketriplesciencechemistryjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
MONDAY 08 MARCH at 14:00-15:00
Then follows as:
MONDAY 15 MARCH at 14:00-15:00
MONDAY 22 MARCH at 14:00-15:00

To book your place visit: https://bit.ly/sketriplesciencechemistrymar21

Online Platform: Zoom
Cost: Maintained School: £100 | Non-Maintained School: £200

PHYSICS

Subject Knowledge Enhancement KS3 Physics

Develop the background subject knowledge required to help planning and teaching physics for key stage 3. Start your key stage 3 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.

Outcomes

You will be able to:

- make links between forces and motion using Newton's Laws.
- develop an understanding for electricity and magnetism using a stepped series of student-led activities.
- cultivate a secure understanding of atomic structure to help teach radioactive decay.
- evaluate a range of Key Stage 4 practicals including the resistance of wire, Ohm's Law, Hooke's Law and density.

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
MONDAY 11 JANUARY at 16:00-17:00
Then follows as:
WEDNESDAY 13 JANUARY at 16:00-17:00
TUESDAY 19 JANUARY at 16:00-17:00

To book your place visit: https://bit.ly/skeks3physicsjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 23 FEBRUARY at 16:00-17:00
Then follows as:
TUESDAY 02 MARCH at 16:00-17:00
THURSDAY 04 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/skeks3physicsfeb21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

PHYSICS

Subject Knowledge Enhancement KS4 Physics

Develop the background subject knowledge required to help planning and teaching physics for key stage 4. It will build on your knowledge from undertaking the key stage 3 physics course. Start your key stage 4 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.

Outcomes

You will be able to:

- use consistent approaches to teaching forces and motion that can address likely student misconceptions.
- tell a story of electricity that differentiates the key terms including potential difference and current.
- use energy stores to answer questions related to physical understanding.
- compare the similarities and differences between sound and light waves.

The course duration is 7 hours and is delivered with 4 hours of facilitated and 3 hours of participant gap tasks.

1st Instance
Course consists of 4 facilitated sessions, starting on:
TUESDAY 09 FEBRUARY at 16:00-17:00
Then follows as:
TUESDAY 23 FEBRUARY at 16:00-17:00
TUESDAY 09 MARCH at 16:00-17:00
TUESDAY 16 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/skeks4physicsfeb21

2nd Instance
Course consists of 4 faciliated sessions, starting on:
TUESDAY 23 MARCH at 16:00-17:00
Then follows as:
THURSDAY 25 MARCH at 16:00-17:00
TUESDAY 30 MARCH at 16:00-17:00
THURSDAY 01 APRIL at 16:00-17:00

To book your place visit: https://bit.ly/skeks4physicsmar21

Online Platform: Adobe Connect
Cost: Maintained School: £140 | Non-Maintained School: £280

PHYSICS

Subject Knowledge Enhancement Physics Triple Science

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.

Outcomes

You will be able to:

- make an informed decision over when to use different types of teaching to communicate physics concepts.
- use tactile, physical models to simulate nuclear experiments in the classroom.
- develop students' understanding of mathematical models, including stopping distance, transformers and Boyle's law.
- use a range of external resources to enhance your teaching of physics, such as Perimeter Institute to help teach the expanding universe, and PhET to explore optics.

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 26 JANUARY at 15:30-16:30
Then follows as:
MONDAY 01 FEBRUARY at 15:30-16:30
THURSDAY 04 FEBRUARY at 15:30-16:30

To book your place visit: https://bit.ly/sketriplesciencephysicsjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
WEDNESDAY 10 MARCH at 15:30-16:30
Then follows as:
TUESDAY 16 MARCH at 15:30-16:30
THURSDAY 18 MARCH at 15:30-16:30

To book your place visit: https://bit.ly/sketriplesciencephysicsmar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

Maths in the secondary science curriculum

Develop your teaching of key areas of mathematics in the science curriculum. You will be able to develop strategies to support the teaching of graphs to enable students to sketch, interpret, draw and find lines of best fit as well as more general skills required to manipulate 'number', such as rounding, standard form and links to appropriate units. As well as developing specific skills, you will consider how to build confidence in students to enable them to solve and manipulate equations.

Outcomes

You will be able to:

- develop strategies and activities to convey the purpose of graphs in science by developing the skills of sketching, interpreting and drawing graphs
- develop strategies and activities to understand the links between rounding, standard form and the use of units in a scientific context
- explore strategies and activities to develop fluency in solving and manipulation equations in a scientific context

The course duration is 5 hours and is delivered with 5 hours of facilitated

1st Instance
Course consists of 3 facilitated sessions, starting on:

TUESDAY 19 JANUARY at 15:45-17:45

Then follows as:

THURSDAY 21 JANUARY at 15:45-17:45
TUESDAY 26 JANUARY at 15:45-16:45

To book your place visit: https://bit.ly/mathssecscicurriculumjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:

TUESDAY 02 MARCH at 15:45-17:45

Then follows as:

THURSDAY 04 MARCH at 15:45-17:45
TUESDAY 09 MARCH at 15:45-16:45

To book your place visit: https://bit.ly/mathssecscicurriculummar21

Online Platform: Zoom
Cost: Maintained School: £100 | Non-Maintained School: £200

Moving into science leadership

For teachers who are wanting to take up their first responsibility post and will be leading colleagues perhaps for the first time. This course will provide a range of strategies to support their move into a first area of responsibility within a science department. It will look at: Leadership styles, the difference between leadership and management, what outstanding teaching and learning look like, strategies for monitoring and evaluation, writing a strategic action plan and how best to implement change.

Outcomes

You will be able to:

- employ a range of strategies to lead and manage your team effectively
- explain what outstanding teaching and learning in science is
- evaluate the leadership skills you have and identify areas for further development

The course duration is 8 hours and is delivered with 5 hours of facilitated and 3 hours of participant gap tasks.

1st Instance
Course consists of 5 facilitated sessions, starting on:

TUESDAY 09 FEBRUARY at 08:00-09:00

Then follows as:

TUESDAY 23 FEBRUARY at 08:00-09:00
TUESDAY 02 MARCH at 08:00-09:00
TUESDAY 09 MARCH at 08:00-09:00
TUESDAY 16 MARCH at 08:00-09:00

To book your place visit: https://bit.ly/movingintoscienceleadershipfeb21

2nd Instance
Course consists of 3 faciliated sessions, starting on:

TUESDAY 23 MARCH at 15:15-17:15

Then follows as:

THURSDAY 25 MARCH at 15:15-16:15
TUESDAY 30 MARCH at 15:15-17:15

To book your place visit: https://bit.ly/movingintoscienceleadershipmar21

Online Platform: Adobe Connect
Cost: Maintained School: £160 | Non-Maintained School: £320

Leading Health and Safety in your science department

Heads of department and key stages need to consider how effective the implementation of health and safety really is. Identify areas for development, understand the legal requirements and how you move towards everyone having a good understanding of effective health and safety. We will focus on the core areas of concern in science departments and support you with identifying good practice, as well as being able to audit in an appropriate way.

Outcomes

You will be able to:

- identify common areas of concern in science departments
- explore effective risk assessment that works well
- consider how you support and audit safety
- move towards an embedded H&S culture in your department

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 26 JANUARY at 16:00-17:00
Then follows as:
THURSDAY 02 FEBRUARY at 16:00-17:00
TUESDAY 09 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/leadhandsinsciencedeptjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 09 MARCH at 16:00-17:00
Then follows as:
THURSDAY 16 MARCH at 16:00-17:00
TUESDAY 23 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/leadhandsinsciencedeptmar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

Health and Safety for NQTs in Science

Support those who are new to teaching science with the fundamentals of safe and effective practical work. We will cover what is needed in a school lab, how to produce risk assessments that help you and others do the practical well and give you support in dealing with things that can go wrong.

Outcomes

You will be able to:

- understand the basics of effective health and safety in school labs
- produce risk assessments that support good practical work
- identify good practice for planning and running practicals
- prepare for dealing with incidents in the lab

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
THURSDAY 14 JANUARY at 16:30-17:30
Then follows as:
THURSDAY 21 JANUARY at 16:30-17:30
THURSDAY 28 JANUARY at 16:30-17:30

To book your place visit: https://bit.ly/healthsafetyfornqtsinsciencejan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
THURSDAY 04 MARCH at 16:30-17:30
Then follows as:
THURSDAY 11 MARCH at 16:30-17:30
THURSDAY 18 MARCH at 16:30-17:30

To book your place visit: https://bit.ly/healthsafetyfornqtsinsciencemar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

"I thought the structure of the course was excellent. I would struggle to attend a day course for Science so the timing was great and the tasks in between meant that there was reading and activity that was very relevant for our school."

Somerset SLP

Leading on secondary science curriculum design

This course will be facilitated by Rob May who has many years of experience as a Head of Science in different school settings and is an excellent lead practitioner.
Consider what makes an effective curriculum. Progression in content and skills are explored and also how we can plan to support long term learning at curriculum level. This meets the need for preparation for an OFSTED deep dive. External influences on curriculum development are considered and participants will explore development of schemes of learning to suit their own setting and identify next steps.

Outcomes

You will be able to:

- consider and begin to apply principles of effective curriculum design to develop the science curriculum in your school
- plan content as a sequence of progression and provide rationale
- plan for progression in practical skills through a secondary curriculum
- critique examples of schemes of learning and identify good practice for your own setting

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
THURSDAY 11 FEBRIARY at 16:15-17:15
Then follows as:
THURSDAY 23 FEBRUARY at 16:15-17:15
TUESDAY 02 MARCH at 16:15-17:15

To book your place visit: https://bit.ly/leadsecsciencecurriculumdesignfeb21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
MONDAY 15 MARCH at 16:15-17:15
Then follows as:
THURSDAY 18 MARCH at 16:15-17:15
MONDAY 22 MARCH at 16:15-17:15

To book your place visit: https://bit.ly/leadsecsciencecurriculumdesignmar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

Secondary support for new staff in September NQTs

Develop an understanding of the key aspects of teaching science for NQTs, early career teachers or anyone returning to the classroom. It covers managing behaviour including for practical work; lesson objectives and outcomes; planning a sequence of learning; questioning and assessment - including formative assessment and top tips for starting your first job (or a new job or new academic year).

Outcomes

You will be able to:

- Structure learning so that students are clear about learning objectives and you are able to assess whether these have been met.
- recognise how behaviour is different in a science classroom and develop strategies to address this.
- plan a sequence of learning; differentiate between lesson level and longer episodes. Understand how to assess the learning.

The course duration is 6 hours and is delivered with 3.5 hours of facilitated and 2.5 hours of participant gap tasks.

1st Instance
Course consists of 4 facilitated sessions, starting on:
THURSDAY 28 JANUARY at 15:30-16:30
Then follows as:
THURSDAY 04 FEBRUARY at 15:30-16:30
THURSDAY 11 FEBRUARY at 15:30-16:15
THURSDAY 25 FEBRUARY at 15:30-16:15

To book your place visit: https://bit.ly/secondarysupportfornewstaffinseptjan21

2nd Instance
Course consists of 4 faciliated sessions, starting on:
THURSDAY 11 MARCH at 15:30-16:30
Then follows as:
THURSDAY 18 MARCH at 15:30-16:30
THURSDAY 25 MARCH at 15:30-16:15
THURSDAY 01 APRIL at 15:30-16:15

To book your place visit: https://bit.ly/secondarysupportfornewstaffinseptmar21

Online Platform: Adobe Connect
Cost: Maintained School: £110 | Non-Maintained School: £220

Developing Learners' Resilience and Independent Learning Skills in Post 16 Science

Explore different methods to help learners manage the transition from level 2 (KS4) to level 3 (KS5), cope with the challenges of independent learning and develop the resilience to endure a full post-16 programme. Develop strategies to ensure that the culture of the classroom is right and that learners develop the metacognitive skills and motivation needed to progress to higher levels of study and employment.

Outcomes

You will be able to:

- develop strategies to secure effective transition of learners from level 2 (KS4) to level 3 (KS5)
- develop learner's independent learning skills to meet the demands of post 16 study
- strengthen the resilience of learners and support their progression

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 19 JANUARY at 16:30-17:30
Then follows as:
THURSDAY 21 JANUARY at 16:30-17:30
TUESDAY 26 JANUARY at 16:30-17:30

To book your place visit: https://bit.ly/devlearnskillsinpost16scijan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 23 MARCH at 16:30-17:30
Then follows as:
THURSDAY 25 MARCH at 16:30-17:30
TUESDAY 30 MARCH at 16:30-17:30

To book your place visit: https://bit.ly/devlearnskillsinpost16scimar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

Planning and Delivering a Remote Science Lesson

Develop the skills required to deliver remote science lessons in an effective and engaging way for your learners. You will have opportunity to consider the most effective ways of using the technology available and will be able to practise and reflect on mapping your existing lessons towards remote delivery.

Outcomes

You will be able to:

- understand and access the technology available for remote learning
- consider the most effective ways to deliver remote science lessons
- practise delivery of remote science lessons and plan for the future

The course durationis5 hoursand is delivered with3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 09 FEBRUARY at 09:00-10:00
Then follows as:
WEDNESDAY 10 FEBRUARY at 09:00-10:00
FRIDAY 12 FEBRUARY at 09:00-10:00

To book your place visit: https://bit.ly/plandeliveraremotesciencelessonfeb21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 23 MARCH at 15:30-16:30
Then follows as:
THURSDAY 25 MARCH at 15:30-16:30
FRIDAY 26 MARCH at 15:30-16:30

To book your place visit: https://bit.ly/plandeliveraremotesciencelessonmar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

"I have clear ideas on how some of the ideas presented can be simply, quickly and effectively implemented in the department"

Central and West London SLP

Mentoring for NQTs/ITTs in Science

Whether you are new to mentoring or an experienced mentor this remote CPD will allow you to develop your practice in supporting early career teachers and those returning to the profession. You will consider the teacher standards and mentoring guidance and identify points that are particularly pertinent in science. This will lead into developing science specific aspects of mentoring including supporting your mentee in:

- planning and carrying out effective lessons and practical work;
- assessment;
- promoting and monitoring good health and safety practice and
- managing behaviour, including during practical work

Outcomes

You will be able to:

- evaluate your areas of strength and development to support NQT's in science
- consider science specific aspects of mentoring
- support your mentee to develop effective professional relationships

The course duration is 6 hours and is delivered with 3 hours of facilitated and 3 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 27 JANUARY at 16:00-17:00
Then follows as:
TUESDAY 03 FEBRUARY at 16:00-17:00
TUESDAY 10 JANUARY at 16:00-17:00

To book your place visit: https://bit.ly/mentoringinsciencejan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
WEDNESDAY 10 MARCH at 16:00-17:00
Then follows as:
WEDNESDAY 17 MARCH at 16:00-17:00
WEDNESDAY 24 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/mentoringinsciencemar21

Online Platform: Adobe Connect
Cost: Maintained School: £120 | Non-Maintained School: £240

Effective transition between year 6 and year 7 in science

This course will be facilitated by two expert teacher practitioners, one primary and the other secondary and is suitable for both Primary and Secondary Science Teachers. The course will focus on how to establish effective transition between year 6 and year 7 in science. You will have the opportunity to consider the nature and content of the year 6 science curriculum, how to develop creative activities that build on prior learning and how to use diagnostic teaching to identify and address gaps in knowledge and skills. You will also evaluate case studies from a variety of sources that showcase effective strategies, techniques and activities to support transition between year 6 and year 7 in science. You will be able to discuss issues with teachers across phases.

Outcomes

You will be able to:

- Establish links between the year 6 and year 7 science curriculum and consider some of the issues around effective transition
- Develop strategies and techniques to differentiate lessons and support pupils in building a strong base of scientific knowledge and skills
- Evaluate case studies of transition between year 6 and 7 in science

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
WEDNESDAY 13 JANUARY at 15:00-16:00
Then follows as:
WEDNESDAY 20 JANUARY at 15:00-16:00
WEDNESDAY 27 JANUARY at 15:00-16:00

To book your place visit: https://bit.ly/effectivetransitionyr6yr7insciencejan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
WEDNESDAY 24 FEBRUARY at 16:00-17:00
Then follows as:
WEDNESDAY 03 MARCH at 16:00-17:00
WEDNESDAY 10 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/effectivetransitionyr6yr7insciencefeb21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

Narrowing the gap: Supporting disadvantaged learners in Science

School closures due to COVID-19 have impacted more negatively on disadvantaged learners than non-disadvantaged peers. This course brings together the findings from research on the barriers to the progress of disadvantaged learners and identifies the areas where are likely to have impact in the classroom. Strategies to support learners with aspects of literacy, scientific reasoning and metacognition are explored with participants also sharing their own good practice.

Outcomes

You will be able to:

- increase familiarity with the research evidence linked with supporting disadvantaged learners
- develop strategies and resources to support disadvantaged learners in science
- share good practice and identify actions to best support disadvantaged learners in your own setting

The course duration is 3 hours and is delivered with 2 hours of facilitated and 1 hours of participant gap tasks.

1st Instance
Course consists of 2 facilitated sessions, starting on:
THURSDAY 04 FEBRUARY at 16:00-17:00
Then follows as:
THURSDAY 11 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/narrowthegapinsciencefeb21

2nd Instance
Course consists of 2 faciliated sessions, starting on:
TUESDAY 23 MARCH at 16:00-17:00
Then follows as:
TUESDAY 30 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/narrowthegapinsciencemar21

Online Platform: Adobe Connect
Cost: Maintained School: £60 | Non-Maintained School: £120

"I enjoyed all aspects the different styles of each session, the resources and more I found the examples of activities to teach in primary school helpful. I enjoyed looking at how enable progression"

North and East London SLP

Effective delivery of blended practical work for Triple Science

Delivery of practical science is likely to remain a challenge for a considerable time, given the current climate of uncertainty. It is therefore timely to look at strategies, techniques and resources that can support the delivery of practical science via blended delivery methods. The purpose of this course will be to evaluate different methods of blended delivery, with a specific focus to Triple Science, which can support learners to develop their practical knowledge and skills. You will be signposted to identify various resources that can assist with blended delivery of practical science and learn from current practitioners.

Outcomes

You will be able to:

- understand how the research around delivery of good practical science can be mapped to a blended model of delivery
- evaluate strategies, techniques and resources that support remote delivery of practical science lessons
- develop strategies to maximise the impact of face to face practical science lessons

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 12 JANUARY at 16:00-17:00
Then follows as:
TUESDAY 19 JANUARY at 16:00-17:00
TUESDAY 26 JANUARY at 16:00-17:00

To book your place visit: https://bit.ly/effdelblendpwtriscijan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
MONDAY 22 FEBRUARY at 09:00-10:00
Then follows as:
WEDNESDAY 24 FEBRUARY at 09:00-10:00
FRIDAY 26 FEBRUARY at 09:00-10:00

To book your place visit: https://bit.ly/effdelblendpwtriscifeb21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

TECHNICANS

Technicians: Maintaing your prep room

This course will be facilitated by Simon Quinnell, who is a national leading expert on School Science Technicians and Science Technical services. Maintaining a science prep room can pose a number of challenges. Explore strategies to organise your prep room in an efficient way to maximise the operational side of delivering practical science lessons. You will look at ways to streamline practical requestions as well as how to document inventories and safety considerations.

Outcomes

You will be able to:

- arrange your prep room to be manageable in an order that is safe and time efficient
- organise time management of technicians working in the prep room
- look at different practical requisitions or booking forms
- successfully record inventories and equipment
- ensure you have the documentation you need in the prep room to help you work safely

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 12 JANUARY at 11:00-12:00
Then follows as:
TUESDAY 26 JANUARY at 11:00-12:00
TUESDAY 02 FEBRUARY at 11:00-12:00

To book your place visit: https://bit.ly/techmaintainingyourpreproomjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 23 FEBRUARY at 10:00-11:00
Then follows as:
THURSDAY 04 MARCH at 10:00-11:00
TUESDAY 16 MARCH at 10:00-11:00

To book your place visit: https://bit.ly/techmaintainingyourpreproomfeb21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

TECHNICANS

Technicians Health and Safety

This course will be facilitated by Simon Quinnell, who is a national leading expert on School Science Technicians and Science Technical services.
Technicians are at the heart of every science department, playing a crucial role in supporting effective practical work. With this comes a role in ensuring that the department is safe. Develop a good foundation for carrying out effective health and safety, to support you in your job, but also to support teachers and students.

Outcomes

You will be able to:

- Understand the key areas of concern in science departments
- Identify good practice in risk assessments for technician and teacher activities
- Use good practice to audit labs, prep rooms and stores

The course duration is 3 hours and is delivered with 2 hours of facilitated and 1 hour of participant gap tasks.

1st Instance
Course consists of 2 facilitated sessions, starting on:
TUESDAY 09 FEBRUARY at 11:00-12:00
Then follows as:
THURSDAY 11 FEBRUARY at 11:00-12:00

To book your place visit: https://bit.ly/techhealthsafetyfeb21

2nd Instance
Course consists of 2 faciliated sessions, starting on:
FRIDAY 19 MARCH at 14:00-15:00
Then follows as:
WEDNESDAY 24 MARCH at 14:00-15:00

To book your place visit: https://bit.ly/techhealthsafetymar21

Online Platform: Adobe Connect
Cost: Maintained School: £60 | Non-Maintained School: £120

"I wouldn't miss one of your networks. It is the best CPD around. Sharing classroom practice with other teachers that know and understand the issues."

Sussex SLP

TECHNICANS

Technicians : Setting up your own STEM Club

This course is an introduction to running a successful STEM Club in school as a technician. The sessions will provide information about how to recruit members to your club, how to plan activities to engage and enthuse students and some sample activities and resources to get you started.

Outcomes

You will be able to:

- understand how to set up your STEM Club in terms of management and recruitment of students
- plan your STEM club activities to enthuse and encourage students into STEM subject areas
- explore some activities that will enable you to get your STEM Club started

The course duration is 6 hours and is delivered with 3 hours of facilitated and 3 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
TUESDAY 26 JANUARY at 16:00-17:00
Then follows as:
TUESDAY 02 FEBRUARY at 16:00-17:00
TUESDAY 09 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/techsettingupstemclubjan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 09 MARCH at 16:00-17:00
Then follows as:
TUESDAY 16 MARCH at 16:00-17:00
TUESDAY 23 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/techsettingupstemclubmar21

Online Platform: Adobe Connect
Cost: Maintained School: £110 | Non-Maintained School: £220

"Realistic! High impact, low effort, identifying any barriers and useful strategies to take away"

South Central SLP

STEM Ambassador Programme

Who are STEM Ambassadors?

STEM Ambassadors include people from a range of disciplines and backgrounds, including engineers, designers, architects, scientists and technicians. They help bring a new and inspiring perspective to STEM lessons and career opportunities.

What do they do?

We work with over 30,000 STEM Ambassadors from more than 2,500 different employers. They volunteer their time, enthusiasm and experiences to encourage and inspire young people to progress further in science, technology, engineering and mathematics (STEM) subjects.

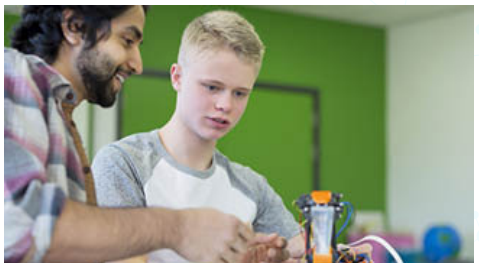
Through a range of activities, including presentations, mentoring and careers talks, STEM Ambassadors play an essential role in inspiring the next generation with the world of STEM subjects and careers. Their support isn't just limited to the classroom - you can invite a STEM Ambassador into your STEM Club, employer, or youth and community group.

Our network of 19 STEM Ambassador Hubs coorinate the volunteering opportunities of over 30,000 STEM Ambassador volunteers across the UK

STEM Ambassador Hubs offer a range of support, opportunities and local expertise. They develop links between groups and individuals working to enhance young people's STEM education.

Whether you are a teacher, group leader, STEM Ambassador or employer, your local STEM Ambassador Hub is available to support you with anything related to the STEM Ambassador programme.

To find your local STEM Ambassador visit: https://www.stem.org.uk/stem-ambassadors/local-stem-ambassador-hubs



FURTHER EDUCATION

Effective delivery of blended practical work (Post-16)

Delivery of practical science is likely to remain a challenge for a considerable time, given the current climate of uncertainty. It is therefore timely to look at strategies, techniques and resources that can support the delivery of practical science via blended delivery methods. The purpose of this course will be to evaluate different methods of blended delivery which can support learners to develop their practical knowledge and skills. You will gain insight from case studies of FE Colleges that have successfully adopted a blended approach, identify various resources that can assist with blended delivery of practical science and learn from current practitioners

Outcomes

You will be able to:

- Understand how the research around delivery of good practical science can be mapped to a blended model of delivery
- Evaluate strategies, techniques and resources that support remote delivery of practical science lessons
- Evaluate case studies of blended practical science delivery
- Develop strategies to maximise the impact of face to face practical science lessons

The course duration is 3 hours and is delivered with 2 hours of facilitated and 1 hour of participant gap tasks.

1st Instance
Course consists of 2 facilitated sessions, starting on:
THURSDAY 11 FEBRUARY at 10:00-11:00
Then follows as:
THURSDAY 25 FEBRUARY at 10:00-11:00

To book your place visit: https://bit.ly/effdelblendpwpost16feb21

2nd Instance
Course consists of 2 faciliated sessions, starting on:
THURSDAY 25 MARCH at 10:00-11:00
Then follows as:
THURSDAY 01 APRIL at 10:00-11:00

To book your place visit: https://bit.ly/effdelblendpwpost16mar21

Online Platform: Zoom
Cost: Maintained School: £60 | Non-Maintained School: £120

Preparing to Teach Level 3 BTEC Applied Science

This course will help you to prepare for teaching Level 3 BTEC Applied Science (NQF) and will focus on pedagogical methods, ideas and resources to teach the first three mandatory units (Unit 1 (Principles and Application of Science I), Unit 2 (Practical Scientific Techniques and Procedures) and Unit 3 (Science Investigative Skills)). You will learn how to deliver these units in an accessible and engaging way, within an applied context. The course will also focus on the most effective methods to prepare learners for externally assessed components of the specification.

Outcomes

You will be able to:

- effective methods for the teaching of key scientific topics
- how to link the subject content to applied contexts and examples
- how to prepare your learners for the demands of external assessment

The course duration is 5 hours and is delivered with 3 hours of facilitated and 2 hours of participant gap tasks.

1st Instance
Course consists of 3 facilitated sessions, starting on:
WEDNESDAY 27 JANUARY at 16:00-17:00
Then follows as:
MONDAY 01 FEBRUARY at 16:00-17:00
WEDNESDAY 03 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/preteachlevel3BTECappliedsciencejan21

2nd Instance
Course consists of 3 faciliated sessions, starting on:
TUESDAY 09 MARCH at 16:00-17:00
Then follows as:
THURSDAY 11 MARCH at 16:00-17:00
FRIDAY 12 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/preteachlevel3BTECappliedsciencemar21

Online Platform: Adobe Connect
Cost: Maintained School: £100 | Non-Maintained School: £200

SKE for Level 3 BTEC Applied Science Unit 1 - Biology

This course will help you to prepare for teaching Level 3 BTEC Applied Science (NQF) and will focus on the subject knowledge needed to teach the biology component of Unit 1 (Principles and Application of Science I) - Structure and Functions of Cells and Tissues.

The course will also provide insight into some teaching approaches and resources that can be used to deliver this topic.

Outcomes

You will be able to:

- enhance your subject knowledge of the topic 'Structure and Functions of Cells and Tissues''
- gain insight into teaching approaches that could be used for this topic
- identify resources that can be used to support the teaching of this topic

The course duration is 3 hours and is delivered with 2 hours of facilitated and 1 hour of participant gap tasks.

1st Instance
Course consists of 2 facilitated sessions, starting on:
MONDAY 11 JANUARY at 16:00-17:00
Then follows as:
THURSDAY 14 JANUARY at 16:00-17:00

To book your place visit: https://bit.ly/skelevel3BTECappliedsciencebiologyjan21

2nd Instance
Course consists of 2 faciliated sessions, starting on:
MONDAY 22 FEBRUARY at 16:00-17:00
Then follows as:
THURSDAY 25 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/skelevel3BTECappliedsciencebiologyfeb21

Online Platform: Adobe Connect
Cost: Maintained School: £60 | Non-Maintained School: £120

"A really helpful course full of ideas that I can put into practice straight away"

Hampshire & Isle of Wight SLP

SKE for Level 3 BTEC Applied Science Unit 1 - Chemistry

This course will help you to prepare for teaching Level 3 BTEC Applied Science (NQF) and will focus on the subject knowledge needed to teach the chemistry component of Unit 1 (Principles and Application of Science I) - Periodicity and Properties of the Elements.

The course will also provide insight into some teaching approaches and resources that can be used to deliver this topic.

Outcomes

You will be able to:

- enhance your subject knowledge of the topic 'Periodicity and Properties of the Elements'
- gain insight into teaching approaches that could be used for this topic
- identify resources that can be used to support the teaching of this topic

The course duration is 3 hours and is delivered with 2 hours of facilitated and 1 hour of participant gap tasks.

1st Instance
Course consists of 2 facilitated sessions, starting on:
MONDAY 08 FEBRUARY at 16:00-17:00
Then follows as:
THURSDAY 11 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/skelevel3BTECappliedsciencechemfeb21

2nd Instance
Course consists of 2 faciliated sessions, starting on:
MONDAY 22 MARCH at 16:00-17:00
Then follows as:
THURSDAY 25 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/skelevel3BTECappliedsciencechemmar21

Online Platform: Adobe Connect
Cost: Maintained School: £60 | Non-Maintained School: £120

SKE for Level 3 BTEC Applied Science Unit 1 - Physics

This course will help you to prepare for teaching Level 3 BTEC Applied Science (NQF) and will focus on the subject knowledge needed to teach the physics component of Unit 1 (Principles and Application of Science I) - Waves in Communication.

The course will also provide insight into some teaching approaches and resources that can be used to deliver this topic.

Outcomes

You will be able to:

- enhance your subject knowledge of the topic 'Waves in Communication'
- gain insight into teaching approaches that could be used for this topic
- identify resources that can be used to support the teaching of this topic

The course duration is 3 hours and is delivered with 2 hours of facilitated and 1 hour of participant gap tasks.

1st Instance
Course consists of 2 facilitated sessions, starting on:
WEDNESDAY 27 JANUARY at 16:00-17:00
Then follows as:
WEDNESDAY 03 FEBRUARY at 16:00-17:00

To book your place visit: https://bit.ly/skelevel3BTECappliedsciencephysicsjan21

2nd Instance
Course consists of 2 faciliated sessions, starting on:
TUESDAY 09 MARCH at 16:00-17:00
Then follows as:
TUESDAY 16 MARCH at 16:00-17:00

To book your place visit: https://bit.ly/skelevel3BTECappliedsciencephysicsmar21

Online Platform: Adobe Connect
Cost: Maintained School: £60 | Non-Maintained School: £120

"I thoroughly enjoy coming to these sessions. My CPD has improved no end in leading science."

Surrey SLP

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