

# Science Early Career Teacher Conference (Virtual)

## Friday 10<sup>th</sup> December 2021

### 9:30am – 4:00pm

A packed day of CPD designed to meet the needs of all. Select from a range of workshops throughout the day, ranging from subject specific sessions, working scientifically, maths in science, supporting disadvantaged students, literacy in science and the role of the wider STEM community. The keynote speaker, David Shakespeare, will explore 'Motivating students in science lessons – is it what you do, or the way that you do it?' in a hands on start to the day.

## Outcomes

You will be able to:

- Conveying enthusiasm and developing self-awareness as a science teacher
- Use a range of strategies to encourage extended writing in science
- Develop subject knowledge and pedagogical approaches to teaching maths in science
- Identify the skills underpinning core practicals in the new GCSE, developing KS4 knowledge and teaching approaches
- Understand a range of strategies to stretch and challenge students to maximise progress
- Gain awareness of the STEM opportunities available locally through the STEM Ambassador hub
- Network and establish links with colleagues across the region

## Summary

The day will include workshops aimed at developing teaching and learning, improving subject knowledge and exploring a range of strategies to promote literacy and numeracy development within science.

Please see overleaf for a schedule of the day and for further information about each workshop.

**Don't miss out on the latest news from the National STEM Learning Centre and Network – sign up to receive email updates at [www.stem.org.uk/register](http://www.stem.org.uk/register)**



**Start date:** Fri 10th Dec 2021  
**Duration:** 9:30am – 4:00pm  
**Location:** Delivered remotely  
**Activity fee:** Maintained £100.00 per delegate/Non-maintained £150 per delegate

***This CPD is bursary funded, after the conference has been attended maintained schools will receive a bursary payment of £75 per delegate.***

**Book now through the STEM Learning website at:**

<https://www.stem.org.uk/cpd/500312/secondary-science-early-career-conference>

## Science Early Career Teacher Conference: Schedule of the day:

Time	Workshop 1	Workshop 2	Workshop 3
9:30am – 9:45am	<b>Welcome and Introductions</b>		
9:45am – 11:00am	<b>Keynote speaker: David Shakespeare</b> <b>Motivating students in science lessons – is it what you do, or the way that you do it?</b> What motivates students to learn science? ... The topics? The activities? The teacher? Something else? There are no easy answers - but this session aims to provoke thought about the tasks that teachers set, the way they are presented and their possible effects on students' motivation.		
11:00am – 11:15am	Refreshments		
11:20am – 12:20pm	<i>Workshop 1a</i> <b>Running a STEM Club: Getting started part 1</b>	<i>Workshop 1b</i> <b>Enhancing literacy in science – words, sentences and extended writing</b> Consider how to encourage your students to turn short sentences into extended pieces of writing by adapting to the science context many approaches used to teach English.	Workshop 1c <b>Supporting disadvantaged students in the new framework</b> Explore the new framework and a range of strategies that can be effectively utilised to ensure progress for all students, including those who are disadvantaged.
12:30pm – 1:30pm	Workshop 2a <b>Running a STEM Club: Getting started part 2</b>	Workshop 2b <b>Maths in Science</b> Explore a range of strategies to effectively teach maths in science whilst developing your own subject knowledge. Learn tricks and tips from an established Head of Science.	Workshop 2c <b>Effective exam preparation: Metacognition and modelling</b>
1:30pm – 2:00pm	<b>LUNCH</b>		
2:00pm – 2:30pm	<b>STEM Learning support for Early Career Teachers</b> A guided tour of the different resources, pathways and support available for Early Career Teachers through STEM Learning.		
2:30pm – 3:30pm	<i>Workshop 3a</i> <b>Working Scientifically in the new Physics GCSE</b> Focusing on core practical's, we will unpick the skills underpinning working scientifically and explore effective teaching approaches.	Workshop 3b <b>Working Scientifically in the new Chemistry GCSE</b> Focusing on core practical's, we will unpick the skills underpinning working scientifically and explore effective teaching approaches.	Workshop 3c <b>Working Scientifically in the new Biology GCSE</b> Focusing on core practical's, we will unpick the skills underpinning working scientifically and explore effective teaching approaches.
3:30pm – 4:10pm	<b>STEM Enrichment and support: STEM Hub team</b> Discover what the STEM Hub team could offer you and your students as well an opportunity to network with STEM Ambassadors		
4:10pm – 4:30pm	<b>Action planning and evaluations</b>		

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