STEM Learning's mathematics CPD support for teachers of science

Mathematics and science teachers working together

An opportunity for one teacher from the mathematics department and one teacher from the science department to jointly attend our face-to-face, residential continuing professional development (CPD) programme at the National STEM Learning Centre, in York.

Developing shared approaches to maths in science and science in maths

One teacher of GCSE mathematics and one teacher of GCSE science working together over three days will:

- understand the similarities and the differences between requirements of the two specifications
- consider approaches to teaching mathematical topics common to the mathematics and science curricula
- develop and implement practical, sustainable models for departments working together
- create a joint action plan to be implemented back in school

> More information

A level mathematics and A level physics working collaboratively

One teacher of A level mathematics and one teacher of A level physics working together over two days will:

- explore how mathematics pedagogy may be applied in physics
- consider how the use of graphing technology can be used consistently in the teaching and learning of each subject
- the benefits of using simple practical activities in the mathematics classroom
- consider how best to support A level physics students who are not studying A level mathematics

> More information

Mathematics support for teachers of A level science

Our series of mathematics subject knowledge and pedagogy for A level teachers of science as part of our face-to-face continuing professional development (CPD) programme at the National STEM Learning Centre, in York.

Maths for A-level biology

For teachers of A level biology working over two days will:

- explore how to support students apply their level 2 mathematics knowledge in a level 3 context
- the interpretation of logarithmic scales in graphs
- understand why statistical tests are used in biology
- chi-squared test
- t-tests
- Spearman's rank correlation

> More information

Maths for A-level chemistry

For teachers of A level biology working over two days will:

- explore how to support students apply their level 2 mathematics knowledge in a level 3 context
- use of graphs in A level chemistry
- the use of log base 10 in the pH scale
- the use of natural logs in the Arrhenius equation
- techniques to develop mathematical reasoning, problem solving and resilience

> More information

Maths for A-level physics

For teachers of A level physics working over two days will:

- explore how to support students apply their level 2 mathematics knowledge in a level 3 context
- use of graphs in A level physics
- effects of differentiation and integration
- teaching mechanics
- logarithms and exponential functions

> More information

Our Science Learning Partnerships (SLPs) combine local expertise in teaching and learning in science, facilitating CPD, and providing school-to-school support.

Further mathematics support for teachers of science, from support with graphs to rearranging equations, is available through by your local Science Learning Partnership.

> You can find your local Science Learning Partnership here