



IMPROVING SECONDARY SCIENCE

Free training programme for schools in the Northumberland area

This free, practical course is designed to support secondary schools to implement the evidence-based recommendations of the EEF's 'Secondary Science' guidance report.

Based on the EEF's guidance and rooted in the latest research, this professional development programme will help you **lead** the improvement of Science teaching, pupil progress, and GCSE outcomes.

Why take part in this programme?

- Free professional development, including **three days of training, one twilight** and **two sessions** of coaching.
- Opportunity to build professional networks in your area.
- £200 to support engagement with the programme.

Who should take part?

This programme is aimed at **Heads of Science**, with explicit support from their senior leader who has line management responsibility for Science.

Commitment Required

- All participating schools will need to sign a memorandum of understanding to sign up to the course.
- The Head of Science will need to attend all three training days. (Another Science teacher is encouraged to attend one of day 1, 2 or 3 and will need to take part in some elements of the in-school coaching sessions).
- Schools to provide time and support for Heads of Science to undertake the gap tasks between training sessions.
- Participating schools will need to be prepared to host and take part in 2 coaching sessions.

Day 1 - 1 Oct 2019

Self-regulation and Science

- Why use evidence to support teaching?
- Developing self regulation to help pupils direct their own learning.
- Developing metacognition.
- Understanding memory and how to support pupils to retain and retrieve knowledge.

Day 2 - 9 Jan 2020

Language and Practicals

- The importance of the language of Science.
- How to develop scientific vocabulary and links to wider literacy.
- Using practicals purposefully and understanding the implications of cognitive load.

Day 3 - 1 May 2020

Misconceptions and Models

- Why preconceptions and misconceptions are important.
- How to identify them and what to do about them.
- Using models to develop understanding and explicitly critiquing models to develop understanding.

Twilight - 1 Jul 2020

Embedding and Developing Practice (2 hours 4pm-6pm)

- Understanding implementation.
- Effective implementation planning.
- How to create and embed change.

Coaching - TBA

Evidence-based implementation (half day)

- Understanding priorities for developing Science teaching.
- Support and challenge for implementation planning.

Coaching - TBA

Evidence-based implementation (half day)

- Reviewing and adapting implementation.
- Planning for spread or sustainability.
- Planning for future improvements.