

The art of the science demonstration: Science in school with Ed Walsh.

@cornwallscied

Seeing is believing: although hands-on practical work is incredibly important, the value of an engaging demonstration should not be overlooked. Explore how demonstrations can enhance STEM teaching and learn how to make the most of them.

Presenter: Ed Walsh, Science Education Consultant

Best Evidence Science Teaching (BEST): using research evidence to support progression in secondary science with Peter Fairhurst. @BestEvSciTeach; @PeterUYSEG

This session is about how the BEST resources can support progression for science students from age 11 to 16, and in particular how the different types of BEST resources can be used together to help maximise that progression.

BEST is a large collection of free resources for secondary school science. The resources have been developed from the best research evidence we can find on common misunderstandings in science, effective diagnostic questioning and formative assessment, constructivist approaches to building understanding, and effective sequencing of key concepts. The resources are developed by the [University of York Science Education Group](#). The [Salters' Institute](#) has been proud to fully fund the BEST project since it began in 2016. The [Institute of Physics](#) is now a co-funder of BEST, having supported the project since 2021.

Presenter: Peter Fairhurst, The University of York

Electricity Fundamentals with Jed Marshall and Henry Hammond.

@MarshallPhysics, @science_aps

Models, shoestring practicals and pedagogical content knowledge to support this challenging KS3&4 physics topic.

Presenters: Jed Marshall, Stimulating Physics Network; Henry Hammond, Science Learning Partnership

Dual coding and modelling for biological concepts with Gemma Singleton. @

@MrsSingleton, @Meridian_HS

Join Gemma Singleton and learn how to teach tricky biological concepts using dual coding and modelling. Try out ideas with five examples from across the biology specification at GCSE and A-level.

Presenters: Gemma Singleton, Meridian High School



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