

# The Maths of Science!

## Using Maths Effectively in Your Science Lessons

### Practical & Creative Maths Teaching to Engage ALL Your Pupils!

Genuine feedback: "INSPIRING!"; "A fantastic day..."; "Extremely useful..."; "Excellent CPD day..."

#### Course Overview:

If we want our pupils to be engaged, comfortable and competent with maths, one way of doing this is to regularly relate and apply mathematical thinking and techniques to other subjects they learn about. In many respects, no two subjects go together better than maths and science, especially because of the measurement, calculation, problem-solving and reasoning involved in the two subjects.

To illustrate this to you and yours in a useful and practical way, you will explore how to apply a range of mathematical thinking, tools and techniques to a range of novel and fun 'hands-on' science investigations, experiments, demos, and 'tricks'. You'll even learn a few maths 'tricks' along the way! The whole session is designed to help you to enrich and enhance your pupils maths knowledge, understanding and application, and so to engage and stimulate their creative thinking, enquiry, dialogue, problem solving and reasoning skills.

This course content is especially intended for delivery to pupils in Key Stages 2 – 3, or P4 – S3.

#### This course will show you:

- How to find the 'maths' in and practical science experiments and demonstrations
- A representative range of fun and novel science experiments from across the three main science curriculum topics (Physics, Chemistry and Biology) to practice on
- Inductive and deductive reasoning and enquiry in maths and science – what they are and why they are important
- Experiments and different types of variables to measure
- The practical difference between 'quantitative' and 'qualitative' information and data, and how to use them
- A 'Good Graph Guide': Effective construction and use of various types of charts, graphs and diagrams, both 'quantitative' and 'qualitative'

#### What resources do we get for the school?

Included with the course is a **FREE** site-licensed 'CUSTOM' CDROM of Dr Mark's resources drawn from his popular 'MAGICAL MATHS' and 'MAGICAL SCIENCE' CDROMs, worth well over £100 RRP!



#### DELIVERY FORMATS:

- Full-day (approx. 5 hours contact) @£595\*
- Half-day or twilight (approx. 2 – 3 hours) @£395\*
- A 1 or 2 hour twilight as part of a 'CPD-Show Combo' day or an 'Extended Pupils & Staff CPD Day' @£545 - £645\*

\*Add VAT plus travel and any necessary overnight B&B  
See 'OPTION, TERMS & FEES' for further details

#### Who is the CPD trainer?

'Dr Mark' Biddiss is a Science & Maths Education Provider, Author and GTC(S) approved CPD/INSET Trainer. Since 1997 he has visited many hundreds of schools, worked with thousands of teachers and many tens of thousands of pupils. He has been repeatedly engaged by numerous 'high-profile' clients to work with teachers, including by local education authorities all over the UK, the TES/TSL Education Conferences and the NEC Education Show. Dr Marks teachers' classroom resources are used in thousands of schools throughout the UK and overseas.

Dr Mark was featured in a *Teachers' TV* programme about his work in schools: 'INSPIRATIONS: Magical Science & Maths'.



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