

# Magical Materials: Nano and Materials Science in the Classroom

## 6<sup>th</sup>-10<sup>th</sup> July



Department of Education and Skills approved Summer Course for Primary School teachers of 5<sup>th</sup> and 6<sup>th</sup> classes (participants qualify for 3 EPV days)

### Course outline:

This course focuses on the **Science curriculum**, including how children learn science, reflections on current practice and cross-curricular links, including maths, history and English. There is an emphasis on literacy, numeracy, ICT, school self-evaluation (SSE) and how cross-curricular links can be brought into nano and materials science teaching.

The NanoWOW resource pack will be used throughout the course, which has a particular focus on the Science strand; Materials as well as many other links to the primary curriculum. All participants will receive a free copy of NanoWOW. The course will enable teachers to implement a range of **hands on science activities in the classroom** with a focus on the pupils being the scientists i.e. encourage children to think like scientists, with practical activities requiring them to do their own research.



*"Mind blowing insight into the world of materials. I'm going away with ideas on how to teach science in the classroom next year."* - Catherine Brodie (Belgrove Senior Girls School, Dublin 3), participant in 2014 Magical Materials Course

### On the course:

NanoWOW promotes enjoyment in science learning while increasing pupils overall attainment in literacy and numeracy skills.

- Create 'Nano Journal' for learnings
- Use 'We Are Learning To (WALT)'
- Effective use of NanoWOW in the classroom
- Hands on experiments
- Nature of science
- Visits to Royal College of Surgeons Ireland, Advanced Microscopes Labs, Materials Ireland lab, Science Gallery
- Using ICT in the classroom
- Science careers advice

### Venue and details:

The course will take place in the CRANN building, Trinity College Dublin. Cost of the 5 day course is €90 (includes tea/coffee/light refreshments). For further information and to register please see:

<http://ambercentre.ie/education/#nanowow>

### Contact:

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