

Magical Materials: Nano and Materials Science in the Classroom

4th – 8th July 2016



Participating Primary School teachers will qualify for 3 EPV days

Course outline:

This week-long course in Trinity College brings the excitement of nano and materials science to the classroom. Imagine a material, tens of thousands of times smaller than a hair on your head that is 200 times stronger than steel, flexible, transparent, conductive and could be used in everything from electronics to medical devices! Learn more about these materials in AMBER, the Science Foundation Ireland funded centre in Trinity. Our 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, including Maths and English. 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 - encouraging children to think like scientists and 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

"I found it extremely exciting and I think the children would really enjoy it." – participant from 2015

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

Further information and registration details by emailing ambersfi13@gmail.com

Contact:

Mary Colclough

☎ (01) 896 3022

✉ mary.colclough@tcd.ie

🌐 ambercentre.ie

