

Biochemistry Club

Sessions Overview

Through a series of entertaining and educational workshops, based on practical hands-on experiences, this course is designed to give an appreciation of how Biology and Chemistry contributes more and more to everyday applications, through the medium of Photography/Imaging and for pupils to gain an insight into a range of related careers. Each session incorporates facts and stories about the future of Biochemistry, in addition to photographing smaller and smaller objects.

Breakdown of Sessions for the Biochemistry Workshops:

Session 1: Introduction to Nanotechnology

Learning opportunities include:

- What is Nanotechnology?
- What does it mean to me?
- Very Big Numbers to Very Small Numbers

Session 2: Introduction to Biotechnology

Learning opportunities include:

- What is Biotechnology?
- How does it affect us? Looking at different areas of Biotechnology
- Careers in Biotechnology

Session 3: Structure of the Earth

Learning opportunities include:

- What are the Crust and Mantle?
- Tectonic Plates
- Different types of Rocks and Soils and where they come from
- Introduction to Landscape Photography

Session 4: Applied Geology

Learning opportunities include:

- Planetary Geology
- Economic Geology, including Mining and Oil & Gas.
- Hydrogeology / Environmental Issues
- Natural Hazards

Session 5: Introduction to Augmented Reality

Learning opportunities include:

- What is an AR?
- AR vs. VR
- AR in Education
- AR in Sports and Entertainment

Session 6: Introduction to Robotics and AI

Learning opportunities include:

- What is a Robot?
- The essential characteristics of Robots
- What is AI?
- Looking at the differences between Robotics and AI