



IMAGING PARTNERSHIP

Exploring Education Through Imaging

Astrochemistry 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 Astronomy and Chemistry contribute to everyday applications, through the medium of Photography/Imaging and for pupils to gain an insight into a range of related careers.

Breakdown of Sessions for the Astrochemistry Workshops:

[Session 1: Introduction to Astrophysics](#)

Learning opportunities include:

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

[Session 2: Our Solar System](#)

Learning opportunities include:

- How the Solar System was made
- High speed photography and capturing movement
- The planets in relation to each other – size and distance

Session 3: Introduction to Aeronautics

Learning opportunities include:

- What is Aeronautics?
- Looking at Aeronautics in Science, Engineering and Business
- Careers in Aeronautics

Session 4: Our Sun

Learning opportunities include:

- What is it? Why is it important?
- Why does it keep burning?
- How we use the Sun in Photography
- Capturing Silhouettes

Session 5: Biomedical Engineering

Learning opportunities include:

- Researching how parts of the human body work
- What is meant by 'Bionics'?
- Designing our own '\$6-million-dollar man'

Session 6: Size and Scale

Learning opportunities include:

- Is Nanotechnology good or bad? (Dual Use Technology)
- What's in our Classroom? – giving pupils a sense of size and scale based on their immediate environment

- Size and Scale – visualizing the numerical properties of a range of objects from the nanoscale to the visible
- Scale Models – giving a sense of size and scale to objects that can't be seen by the naked eye.