

Engineering and beyond – Sessions Overview

Through a series of enrichment focused workshops, this course is designed to give an appreciation of how engineering contributes to everyday applications and for pupils to gain an insight into a range of related careers.

Breakdown of sessions for the Engineering workshops:

Session 1: Satellite Engineering

Learning opportunities include:

- Electronic engineering
- Robotics
- Biotechnology

Session 2: Electronic engineering

Learning opportunities include:

- Applied satellites
- Importance of transport
- How do mobile phones work
- Optics

Session 3: Maths and beyond

Learning opportunities include:

- Using and applying numbers in engineering
- Reasoning
- Number patterns and sequences
- The number system

Session 4: Chemistry and beyond

Learning opportunities include:

- What is diffusion?
- What is water?
- What is carbon?
- What are elements?

Session 5: Applied science and beyond

Learning opportunities include:

- Light and dark
- Electricity
- Electricity and conductors
- Circuits

Session 6: Aerospace Engineering

Learning opportunities include:

- Airports
- Air traffic control
- Flight and space
- Space weather