

Physics and beyond – advanced

Sessions
Overview

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

Breakdown of sessions for the physics workshops:

Session 1: Solids, liquids and gases

Learning opportunities include:

- The planets
- Stars
- Rocky mounts
- The solar system

Session 2: Evolution and inheritance

Learning opportunities include:

- Growth and reproduction
- Changing materials
- Vibration and sound
- The earth and beyond

Session 3: Engineering and beyond

Learning opportunities include:

- Biotechnology
- Nanotechnology
- Engineering principles

Session 4: Biology and beyond

Learning opportunities include:

- Genetics
- Ecology
- Biodiversity
- Science and light

Session 5: Patterns of behavior

Learning opportunities include:

- Forces and Motion
- Cells and cell functions
- Life processes and living things

Session 6: Diffusion

Learning opportunities include:

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