OUR LADY & ST. BEDE
CATHOLIC ACADEMY

Year 9 Science Learning Journey

Careers links

- Doctor, dietician, geneticist, sports scientist, brewing
- Chemical engineer, pharmacist, environmental engineer, product designer, construction
- Electrician, heating and insulation technician, optician, audio-visual technician , vehicle designer

In year 10, GCSE paper 1 units:

- Cells
- Organisation
- Infection & response
- Bioenergetics
- Conservation of energy
- Electricity
- Radioactivity
- Atomic structure
- Structure & Bonding
- Chemical changes
- Energy changes

What Next?

By the end of Year 9

- Use scientific knowledge, understanding and experiences to provide detailed explanations for scientific phenomena in both familiar and unfamiliar contexts.
- Evaluate data, showing awareness of potential sources of random and systematic error.
- Rearrange equations to calculate unknown quantities.
- Demonstrate objectivity and concern for accuracy, precision, and repeatability in scientific investigations.

P4

Light: colour & the eye

Assessment 3

B4

Photosynthesis

C4

Using the Earth's resources

B3

Genetic inheritance

Summer Term

Reactivity

Forces & motion

Assessment 2

Chemical equations

C2

P3

C3

P2

Electromagnetism

Spring Term

B2

Respiratory system

P1

Conservation of energy

Assessment 1

C1

Periodic table & atomic structure

Autumn Term

WS

Working scientifically

B1

Cell transport

At the beginning of Year 9

- Demonstrate accurate knowledge and understanding of key scientific ideas and apply these correctly to familiar contexts, using accurate scientific terminology.
- Select, plan, and carry out the most appropriate types of scientific enquiries to test predictions.
- Decide how to record data of increasing complexity
- Interpret observations and data, including identifying patterns and using observations, measurements, and data to draw conclusions.

To **know God** is to **know** Oneself