



Year 7 Science Learning Journey

Transferable skills:

Metacognition and Self Regulation
Literacy
Numeracy
Planning investigations
Recording data
Analysing & Evaluating Data
Presenting ideas

Careers Links:

- **Biology** - Cellular Biology, research, medicine, dentistry, physiotherapy, environmental biologist.
- **Physics/Engineering** : electricity board/ telecommunications, car manufacturing/ space science/ transport industry/ architecture.
- **Chemistry**: Construction industry, Chemist/ pharmaceuticals, Particle scientist, Drinks industry, forensic science.

End of Year

Reactions and Light, Acids and Alkalis

Indicators and pH. Neutralisation and making salts

Reflection and Refraction

Link to Photography, understanding the workings of a camera and similarity to the eye.

The eye and the camera, Colour

Key Topic 4

Sound, Atoms, Elements and Compounds, Structure and Function of Body Systems

Key Topic 3

Link to Maths- understanding of equations.

Chemical Reactions, word equations

Link to Food Tech- understanding how certain chemical reactions can occur in cooking.

Oxidation and decomposition reactions, using ratios, conservation of mass

Exothermic and Endothermic reactions

Particles and Their Behaviour, Cells, Forces

Link to GCSE P.E – Understanding the human body and the different muscle groups.

Levels of Organisation, Breathing, Gas exchange, skeleton, joints and muscles

Atoms, elements and compounds.

Understanding Chemical Formula

Waves , detecting sound. Loudness and pitch. Echoes and Ultrasound

Key Topic 1

Working Scientifically, Reproduction and Space

Link to HSC- understanding the reproductive system and development of a Foetus.

Introduction to working safely & carrying out investigations

Link to DT- carrying out safe practicals

Reproductive systems in Plants and Animals. Development of Foetus. Flowers and germination

The solar system, night sky, earth and moon

Link to R.E with the idea of creation.