

Science (Year 7)



The Universe

Describe

a day, month and year
Learn about the planets
Calculate mass and weight on different planets



Movement

Describe

the function of the skeleton
Explain how muscles work together to move bones



Energy Resources

Formation of fossil fuels

Compare renewable and non renewable energy resources
Calculating power of appliances

June
End of year exam
Assessment of all learning since September

Changing Earth

Describe the structure and composition of the Earth
Atmosphere from volcanoes
Rocks/Rock cycle

Ecological Relationships

Construct foodchains
Describe how changes in food webs affect populations



Reproduction

Describe the male and female reproductive system
Puberty
Investigate the effects of smoking on pregnancy

Forces

Describe forces, Resultant forces
Investigate friction
And stretching



Acids

Use the pH scale
Describe neutralisation using words and **equations**
Acids and metal reactions



Electricity

Static electricity
Drawing **series and parallel** circuits with circuit symbols

January
Progress test 1
Assessment of all learning since September

Mixtures

Separate mixtures using filtration, evaporation, distillation and chromatography

Energy

Identify energy stores
Describe energy transfers.



Particles

Use the particle model to describe and explain the changes of state, diffusion in liquids and gases and density

Cells

Use a microscope,
Describe structures and functions of parts of a cell
Explain how some cells become specialised to do a specific role.



Introduction to Science

Pupils will learn how to work safely in a laboratory and how to use a range of pieces of science equipment. They will also begin the journey of learning to talk and write like a scientist using key terms