

# Science (Year 7)

## Curriculum Map 2024-2025



### 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** food chains

**Describe** how changes in food webs affect populations



January

**Progress test 1**

Assessment of all learning since September

### 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

### 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