

# Science Curriculum Map (Year 7)

[2022 – 2023]



## Space

**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

## Atmosphere

**Identify** the gases in the air and how this has changed over time.

**Describe** the greenhouse effect and how this links to global warming

June

End of year exam

Assessment of all learning since September

## Differences

**Describe** the structure of DNA

**Present** data using bar charts

## Mixtures

Separate mixtures using filtration, evaporation, distillation and chromatography



## Forces

**Describe** forces,

Resultant forces

Investigate friction

And stretching



## Reproduction

**Describe** the male and female reproductive system

Puberty

**Investigate** the effects of smoking on pregnancy

April

Progress test 2

Assessment of all learning since September

## Energy transfers

**Explain** how energy moves using **conduction, convection and radiation.**

## Ecological relationships

**Construct** food chains

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

## Acids

Use the pH scale

**Describe** neutralisation using words and equations



January

Progress test 1

Assessment of all learning since September

## Using energy

**Identify** energy stores  
**Describe** changes to energy stores



## Particles

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

October

Setting exam

Assessment of all learning since September

## 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.