



St Leo's and Southmead  
Catholic Nursery and Primary

Year

# Science Knowledge Organiser

Autumn

## Amazing Activities

Conduct an experiment on Newton's laws using stomp rockets and different sized balls  
Conduct mould experiment

## Famous Scientists

### Key Concepts

**Isaac Newton**—understand and use scientific language to describe his three laws of motion

-understand & describe what white light 'is'.

Know the seven colours identified with in white light

**Stephen Hawking**— define the words mass, weight and gravity

Investigate and understand the effect of gravity in different parts of our solar system

**Katherine Johnson & Mary Jackson**—

Understand the contribution that these women made to the world of engineering

**Alexander Fleming**—plan an investigation considering the variables and measurements taken.

**Mary Anning**— understand how organisms change over a long period of time

### Key Vocabulary

**Motion**— something moving or being moved

**Forces**— a push, a pull or a twist

**Action** -the process of doing something

**Reaction**- something that happens as the result of an action

**Colour spectrum**— the seven main colours in the spectrum of light

**Refraction**—the bending a light or sound wave e.g. the bending of the sun's rays as they enter raindrops or prisms

**White light**—the light we get from the sun

**Mass**—measures how much matter makes an object

**Weight**—a force caused by gravity

**Gravity**— the force that attracts objects towards each other

### Skills

identifying scientific evidence that has been used to support or refute ideas or arguments

using test results to make predictions to set up further comparative and fair tests

use relevant scientific language and illustrations to discuss, communicate and justify their



### Curriculum Links

- Maths—measurement, statistics
- English— Speaking & listening.
- Historical study -looking at different