

## Science – Scientists and Inventors



### Knowledge Outcomes:

#### Pupils should be taught:

- To ask simple questions and recognising that they can be answered in different ways
- To observe closely, using simple equipment
- To perform simple tests
- To identify and classify
- To use their observations and ideas to suggest answers to questions
- To gather and record data to help in answering questions
- To find out how plants need water, light and a suitable temperature to grow and stay healthy.
- To identify and describe the basic structure of common flowering plants by observing and sketching a range of common plants.
- To describe the importance for humans of exercise, of eating the right amounts of different types of food, and hygiene
- To find out about people who have developed new materials
- To identify and compare the suitability of a variety of everyday materials for particular uses
- To describe how animals obtain their food from plants and other animals, using the idea of a simple food chain

### Wider Curriculum:

Visit a local plant nursery or farm to look at how the plants in greenhouses or polytunnels are looked after.

Arrange a visit from a doctor to explain how they use science in their job, and the tasks they carry out each day.

### Learning Journey:

- I can describe how greenhouses help plants grow healthily.
- I can observe whether plants grow best inside or outside of a greenhouse.
- I can identify different parts of plants.
- I can use a magnifying glass to help me draw different parts of plants.
- I can use my own ideas to explain how doctors use science.
- I can describe what is important in order to stay healthy.
- I can describe Louis Pasteur's life and work.
- I can find out why we wash our hands.
- I can describe Charles Macintosh and his famous invention.
- I can investigate the most suitable fabric for a particular use.
- I can describe what Rachel Carson learnt about ocean habitats.
- I can investigate Rachel Carson's findings on water pollution.
- I can answer questions about the invention of wind turbines.

### Oracy

**Lesson 1:** Use conclusion sentence stems to discuss observations in a trio.

**Lesson 6:** Use description sentence stems to discuss Rachel Carson's findings.

### Key Vocabulary

Spelling	Definition / Sentence
biome	A biome is an area with similar weather, rainfall, temperature, plants and animals.
Eden Project	The Eden Project has specially built 'biome' structures. These house lots of different plants.
botanist	Botanists study plants.
doctor	Doctors treat people who are ill. They use science to work out what is wrong with someone and how to treat it.
germs	Germs are tiny living things that can cause diseases.
turbine	A turbine turns wind into electricity.
waterproof	If a fabric is waterproof, water cannot soak through it.

