



Materials

Year 1

Knowing More, Remembering More

Remembering previous learning

In Reception, children will have experienced:

- Exploring the natural world around them.
- Describing what they see, hear and feel while they are outside.
- Recognising some environments that are different to the one in which they live.
- Understanding the effect of changing seasons on the natural world around them.

In this unit, children will:

- Describe the simple physical properties of a variety of everyday materials.
- Identify and name a variety of everyday materials, including wood, plastic, glass, water and rock.
- Distinguish between an object and the material from which it is made.
- Compare and group together a variety of everyday materials on the basis of their physical properties.

Working Scientifically:

- 1.7 Carry out simple tests using non-standard measurements when appropriate.
- 1.8 Gather and record simple data.
- 1.9 Sort objects and living things into groups based on simple properties.
- 1.12 Answer simple questions.

Key Learning Steps:

1. Explore materials - wood, plastic, glass and metal
2. Explore materials - rock
3. Objects and materials
4. Melt and freeze
5. Float or sink?
6. Does it absorb water?
7. Investigate materials

Key Vocabulary:

- | | | | | |
|------------|-----------|----------|------------------------|-----------------------|
| • material | • light | • glass | • ice | • dependent variable |
| • soft | • rough | • rock | • float | • controlled variable |
| • hard | • smooth | • wool | • sink | • variable |
| • shiny | • object | • solid | • absorb | • transparent |
| • dull | • liquid | • liquid | • independent variable | • opaque |
| • rock | • wood | • melt | | |
| • heavy | • plastic | • freeze | | |

Key Scientists:



Classic
John Dunlop (1840-1921)
Scottish inventor, who invented rubber products.



Classic
John McAdam (1756-1836)
Created smooth and hard road surfaces.

Contemporary

Santo Padula
Working on new tyres for vehicles to visit other planets



Contemporary
Julie Brusaw
Invented new solar roadways that generate electricity.

Knowing More, Remembering More

Knowing more in Y1

- What are rocks? Rocks come in different shapes, sizes and textures.
- What are rocks used for? Rocks can be used to build things, such as walls or buildings.
- What is ice? When water freezes, it turns to ice.
- What is water? When ice melts, it turns to water.
- What is floating? When materials stay at the top of the water.
- What is sinking? When materials fall to the bottom of the water.