



Year 5  
Autumn Term

## Materials

In this unit children will find out more about materials and their uses. They will work scientifically to explore the properties of materials while developing their Working Scientifically skills.

### Key Vocabulary:

**Absorbent**—soaks up water

**Brittle**—can be easily snapped.

**Conductor** – A material or device which allows heat or electricity to carry through.

**Electrical conductivity**—Ability to conduct or transmit electricity.

**Hard Material**—cannot be easily scratched.

**Insulator** – A substance which does not readily allow the passage of heat or electricity.

**Magnetic** – Capable of being magnetised or attracted by a magnet.

**Rough surface**—uneven surface

**Shiny**—will reflect light

**Thermal** – Relating to heat.

**Translucent**—you can partly see through it.

### Key Knowledge:

- Compare and group together everyday materials based on their properties including hardness, response to magnets, thermal and electrical conductivity.
- Give reasons using evidence from tests for uses of materials



### What came before:

- In Year Four, children learnt about conductors and insulators.
- Children have carried out investigations to answer questions.

### What comes next:

- In KS3 children will be learning, The particulate nature of matter, the properties of the different states of matter in terms of the particle model, including gas pressure, changes of

### Key Skills:

- to design investigations to answer questions.
- to compare and classify.
- to take measurements accurately.
- to control variables
- to use predictions to set up further tests.