

# Science Knowledge Organiser

Year 1

Summer (ii)

## How can we change materials for a purpose?

**Portable Knowledge** - The shape of some solids can be changed and this means we can use them for different things.

To know that the shape of a solid can be changed.



hammer

metal

Flat sheet

To investigate the uses of malleable solids.

Malleable materials are special kinds of material that you can bend, twist, and shape without breaking them. It's like when you play with modeling clay or putty, and you can make it into any shape you want, like a ball, a snake, or even a little house. Metals like gold and silver are also malleable, which means you can flatten them out or make them into different shapes without them snapping. This makes them very useful for making things like jewelry, coins, and even parts of cars.

### Core vocabulary

**Solid shapes** - a state of matter that keeps its shape

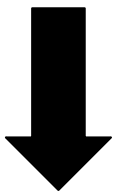
**Investigate**- to discover and examine the facts through experimenting.

**Malleable solids**- a solid that can be manipulated into another shape.



To explain the benefits of malleable solids.

Malleability is required to construct objects out of metal without breaking it. While metal can be manipulated via intense heat, it can also be forged through physical pressure that a hammer, roller, or press delivers.



2 pack

Aluminium



Copper



Gold

To design a scientific enquiry based off a question.

