



Year 1/2 Science Knowledge Organiser: Everyday Materials and their uses



Subject Specific Skills

- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.
- Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

Prior Learning

- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.
- Compare and group together a variety of everyday materials on the basis of their simple physical properties.

Key Knowledge:

Materials can be suitable for different purposes and an object can be made of different materials.

Properties of Materials

Wood - hard, stiff, strong, opaque, can be carved into any shape.
Glass - waterproof, transparent, hard, smooth.
Plastic - waterproof, strong, can be made to be flexible or stiff, smooth or rough.
Metal - strong, hard, easy to wash.
Paper - lightweight, flexible.
Cardboard - strong, light, stiff.
Fabric - soft, flexible, hard-wearing, can be stretchy, warm, absorbent.
Rubber - hard-wearing, elastic, flexible, strong

Key Vocabulary

Materials - Materials are what objects are made from.

Suitability - Suitability means having the properties which are right for a specific purpose.

Properties - This is what a material is like and how it behaves (soft, stretchy, waterproof)

Transparent - allowing light to pass through so that objects behind can be distinctly seen.

Translucent - allowing light, but not detailed shapes, to pass through; semi-transparent.

Opaque - not able to be seen through.

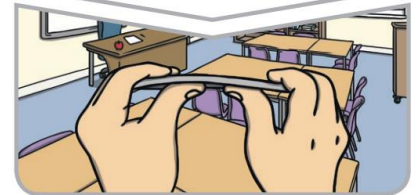
Key Knowledge:

Objects made of some materials can be changed in shape by bending, stretching, squashing and twisting.

Squash an object by pushing both hands together.



Bend an object by grabbing both ends of the object and bringing the ends inwards together.



Twist an object by turning your hands in opposite directions.



Stretch an object by pulling your hands slowly and gently apart.

