



## Knowledge Organiser

Science : Uses of everyday materials

Year 1/2

Theme: Cause and Effect

Summer Term B

### Prior core knowledge

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

### Year 2 only

Identify wood, plastic, glass, metal, water, rock and paper  
 Know that some materials are absorbent.  
 Name a material that is absorbent and a material that is not absorbent.

### Core knowledge for this unit

Name 2 things you can do to a material to change its shape?

Squash, stretch, twist, bend, fold

Name 2 materials that could be changed by squashing, or stretching?

Rubber, fabric, paper, foil

Explain why this material is suitable for the object:

Why is glass a suitable material for a window? It is transparent—you can see through it

Why is cotton/ fabric suitable for a pair of socks? It is stretchy and molds to the shape of your foot

Can you name a material that would not be suitable for certain objects that we use and why? E.g.

A window made of wood would not be suitable because you could not see through it

A metal sock would not fit around your foot

Name 1 absorbent material: Sponge, fabric

Name 1 material that is not absorbent: Metal, glass

How can you make a piece of paper waterproof? Put wax on top.

Name a waterproof material: Glass, metal

Name 1 transparent material: Glass, some plastic

Name 1 opaque material: Wood, metal

### Seasonal changes

Which season has the longest days? Summer

What is the weather like in summer? Summer is the warmest and sunniest season.

### Vocabulary

<b>Material</b>	Substances that objects are made from.
<b>Bend</b>	To curve out of a straight line.
<b>Twist</b>	To wind around.
<b>Squash</b>	To flatten out something.
<b>stretch</b>	To make something longer in length.
<b>Absorb</b>	To take in water.
<b>absorbent</b>	A material that can take in water.
<b>Waterproof</b>	Does not let water through.
<b>Transparent</b>	Light completely passes through it, you can see through it.
<b>Translucent</b>	Some light passes through.
<b>Opaque</b>	No light passes through, you cannot see through it.
<b>Seasons</b>	The four times of year with different types of weather.