

Key Vocabulary	
<b>materials</b>	<b>Materials</b> are what objects are made from.
<b>suitability</b>	<b>Suitability</b> means having the <b>properties</b> that are right for a specific purpose.
<b>properties</b>	This is what a <b>material</b> is like and how it behaves (soft, stretchy, waterproof).

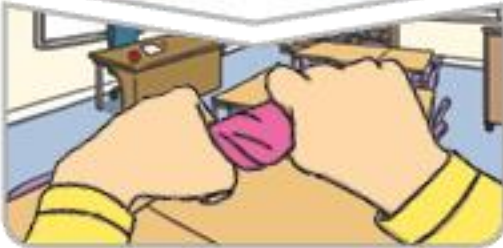
**Squash** an object by pushing both hands together.



**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.



## Key Knowledge

### 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, durable



**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	
<i>absorbant</i>	Absorbency is the property of a material to take in and hold water.
<i>waterproof</i>	A waterproof material does not allow water to pass through it.
<i>Non-waterproof</i>	A non-waterproof material allows water to pass through it.
<i>Recycle</i> 	Some materials have the property of being able to be recycled. This means that they can be processed and used again.
<i>Durability</i>	Durability is the ability to withstand damage and wear.
<i>Rigidity</i>	Rigidity is the property of a material to resist being bent or flexed.
<i>Elasticity</i>	The property of a material to go back to its original shape after being stretched or squashed.

Products are made from materials. Some materials are natural and some are man made. Some materials are dug out of the ground, such as coal and oil. Some materials are grown, for example wool comes from sheep and cotton is grown from a plant. Some materials do not occur naturally and are made by people.

#### Made-made Materials

- Plastic
- Paper
- Rubber
- Glass
- Polyester

#### Natural Materials

- Clay
- Wood
- Stone
- Wool
- Cotton

Some materials can sink when placed in water and some materials can float. Sometimes, material may sink but can float if we change the shape. When something floats, we say it is buoyant.

