

Materials

We use different materials to make different items. When making objects, we need to decide on the best material for the job.



rock



fabric



paper



brick



wood



rubber



glass



plastic



metal

Materials and their Uses

Windows are made from glass because it is transparent.

Wellington boots are made from rubber because it is strong, waterproof and bendy.

Houses are usually made from Brick because it is strong and difficult to break.

Clothes are made from different fabrics. Because fabrics are soft and flexible and so the clothes will be comfortable.

Key Vocabulary



ABSORBENT: A material that soaks up liquid easily.



OPAQUE: A material you cannot see through.



ROUGH: An uneven and not smooth surface.



SMOOTH: A surface that has no roughness, lumps or holes.



STRETCH: Changing the shape of a material by pulling it to make it longer/bigger and thinner.



STRONG: A material that is not easily broken and can support a lot of weight.



TRANSPARENT: A material you can see through.



WATERPROOF: Does not let water pass through it.

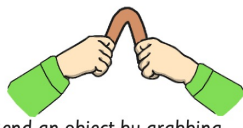
Changing Materials

We can change the shape of some materials by:

- Squashing them
- Bending them
- Stretching them
- Twisting them



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.

Liquids and Materials

When materials are chosen for certain jobs, they are chosen because of their **suitability**. That means they have **properties** which are best for the job.

If we need a material to 'pick up' water we have spilt, we need something **absorbent**. Sponges, kitchen towels and other materials are absorbent and can help us clear up spilt liquid.

Sometimes, we need materials to stop the water getting in. This means they are **waterproof**.

For example, we want our raincoats and umbrellas to keep us dry in the rain and stop the water getting in.

