

Materials

What should I already know?

- Identify different materials such as plastic, metal, wood, glass and rock.
- Describe materials such as soft, hard, rough, shiny.
- Know the difference between an object and material.

Key Knowledge

- Objects can be made from different **materials**.
- Some **materials** are **natural**, such as sand, wood and wool.
- Some are **human made** such as plastic and cardboard.
- Some **materials** are **recyclable** and can be used again.
- Paper and cardboard are made from wood and come from trees. They can be **recycled**.
- There are different strengths of wood, paper and cardboard.
- **Rock** is a **natural material**.
- **Bricks** are a **human made material**.
- **Rock and brick** can be used to build houses, buildings and walls.
- **Glass** is **hard and brittle**. It is **recyclable**.
- **Plastic** can be **hard or flexible**. Some **plastic** can be **recycled**.
- **Metal** can be used to make different objects. **Metal** comes in many forms and colours.
- Some **metals** are **flexible** and can easily change shape. Some cannot change shape easily.
- **Fabrics** can be natural and human made. **Fabrics** have different uses.
- **Materials** have particular uses.
- Some objects can be made from different **materials**. Some **materials** are suitable for an object and some are **unsuitable**.
- Some **materials** can change shape and some cannot. Some **materials** can be **bent, twisted, squashed and stretched**.

Key Vocabulary and definitions

Material	What an object is made from.
Natural material	A material that comes from animals, plants or the earth.
Human-made material	A material made by people.
Recycle	To change rubbish into a material that can be used again.
Smooth	An even surface.
Rough	An uneven surface.
Flexible	Can change shape easily.
Rigid	Cannot change shape easily.
Tough	Not easily broken.
Brittle	Easily broken.
Shiny	A surface that can reflect light.
Dull	Not clear, bright or shiny.
Rock	A natural material found on or underneath Earth's surface. Stone is a small rock.
Pebble	A small, smooth rock that has been shaped by water.
Brick	A human-made building material.
Transparent	Materials you can see through.
Translucent	Materials that you cannot see clearly through.
Opaque	Materials you cannot see through.
Fabric	A material made from weaving or knitting threads together.
Lightweight	Thin and light.
Waterproof	Does not allow water to pass through it.
Breakable	Easy to break.

Wood



Rock



Brick



Plastic



Glass



Metal



Fabric



Bend



Squash



Twist



Stretch