

### Knowledge

To find out about different materials and the properties they have.

#### Explore materials

Materials can be human-made (plastic and cardboard) and some can be natural (sand, wool). Some materials are recyclable and can be used again (paper, wood, cardboard, glass and some plastic).

#### Wood, paper and cardboard

Paper and cardboard are made from wood. There are different strengths of wood, paper and cardboard.



#### Brick and rock



Rock is a natural material. Bricks are a human-made material.

#### Glass and plastic



Glass is hard and brittle. Plastic can be flexible or hard.



#### Metal



Metal comes in many forms and colours. Some metals can easily change shape and some cannot.

#### Same object, different material



Some objects can be made from different materials. Materials have particular uses. Some materials are suitable for an object and some are unsuitable.



#### Test materials

Some materials can change shape and some cannot. Some materials can be bent, twisted, squashed and stretched.

#### Working scientifically:

Identifying and classifying. Performing simple tests.

Use simple features to compare the suitability of a variety of everyday materials.

Observing closely using simple equipment.



# Science Year 2 Autumn 2 Materials



### Vocabulary

Word	Definition
material	what an object is made from
recycle	to change rubbish into a material that can be used again
waterproof	does not allow water to pass through it
rough	an uneven surface
flexible	can change shape easily
rigid	cannot change shape easily
brittle	easily broken
hard	Not easily broken or bent
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

How could you sort and group these materials?

Which material would be most suitable for a \_\_\_?

What are natural materials?  
What are human-made materials?

What is the texture of this material?

