

Working scientifically

Ask simple questions and recognise they can be answered in different ways

Observing closely using, simple equipment

Perform simple tests

Identifying and **classifying**

Use **observations** and ideas to suggest answers to **questions**

Gathering and **recording data** to help in answering questions

What I should already know:

- ◆ 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**.

What I will know by the end of the unit

We use different **materials** for different objects depending on their purpose.

Materials are used for more than one thing (e.g. **metal** can be used for coins, cans, cars and table legs.

Think about unusual and creative uses for everyday materials.

Changing the shape of a **material** can be done by:

Squashing is to crush something so that it becomes flat, **soft**, or out of shape.

Bending is to change a straight object so that it is curved.

Twisting is to change the shape of an object by turning it.

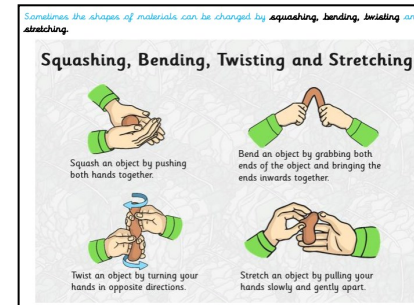
Stretching is to make an object longer or wider without tearing or breaking.

Investigate

Spot and group the materials you see on the way to school.

Find an object in your house that exists in three or more different material forms.

Find an object that is made from more than three materials.



Properties of different materials	
Wood	strong, opaque, stiff, hard
Plastic	bendy, smooth, translucent, stretchy
Glass	transparent, hard, smooth, waterproof
Brick	rough, strong, opaque, dull
Paper	translucent, flexible, not waterproof
Cardboard	rough, dull, opaque, not waterproof
Metal	Shiny, strong, opaque, hard
Rock	Rough, strong, opaque, hard

Key vocabulary

Material	A substance used to make things
Property	A characteristic of something
Transparent	Objects behind can be seen clearly
Translucent	A material which allows light to pass through but is not clear
Opaque	A material which does not allow light to pass.



rubber



brick



plastic



sponge



glass



wood



stone



metal