Properties of Materials

twinkl

Aim

• I can compare materials according to their properties.

Success Criteria

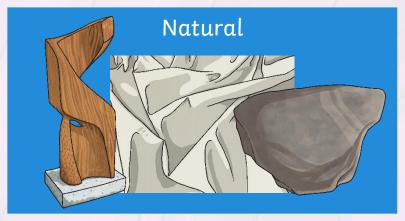
- I can describe a material's properties.
- I can explain the uses of different materials based on their properties.
- I can sort and compare materials according to their properties.

Describing Materials

Any substance that is used to make something is a material.

Natural materials such as stone, wood and cotton are used or worked with in the way they are found in nature.

Synthetic or human-made materials are made from natural materials, but are altered with the help of heat or chemicals. Some examples include plastics, polyester and Kevlar.





Properties



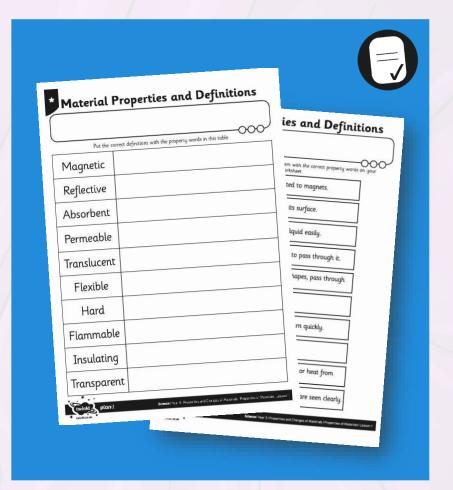
The words used to describe a material are known as its properties.

Each material has its own set of properties.

These properties make different materials useful for different purposes.

Can you match the properties with their definitions on your Material Properties

Activity Sheet?



Using Materials



Why is it useful to know the properties of a material?

It is useful because if you know the properties of a material, you can then choose the best material for a purpose.

Talk to your partner about your ideas.





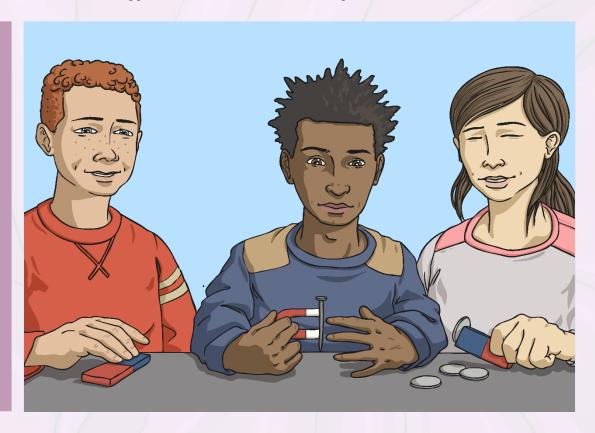
Testing Properties



To find out which properties a material has, they have to be tested. You are going to test several different materials to find their properties.

You will test for:

- magnetism;
- hardness;
- transparency;
- flexibility;
- permeability.



Testing Properties



Follow the instructions for each test, and try out each test with each material.

Complete your Testing Properties Activity Sheet with your results.



