

LO: The materials challenge

Success Criteria:

- I can describe the properties of different materials
- I can compare and group everyday materials based on their properties.

Task one:

- 1. Look around your house and find five objects made of different materials.
- 2. Draw a table to help you describe each object.
- 3. The next few slides contain examples of a table and vocabulary cards to help you.

Example table:

Object	Material	Properties:	Description:
Saucepan	Metal	 Rigid Strong Shiny Conductor of heat Conductor of electricity 	Metal is a suitable materials for a saucepan because it is a good conductor of heat (heat can travel around the saucepan and warm the food). Metal is also strong, which means that the saucepan will not break easily.
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Vocabulary cards:





Task two:

Explain why the following materials were selected to make the following items.

- Try to give more than one reason.
- The words below may help you:

Rigid, flexible, impermeable, durable, smooth, warm, insulator, grip, soft, hard, transparent, opaque, light, tough.





for boxing gloves

Cotton for a towel



for a hot

water

bottle



Wood for a chair

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Chocolate teapot









Bread shoes







Task three:

Look at the following pictures.

- Explain why the object is **not made of a suitable material**.
- Think about the **properties of the material** and the **purpose of the object**.

Extension:

What material would be best to make each object with? Why?

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Extension:

Can you group materials in your home based on these different properties:

Insulator (Heat/electricity does not travel through the object)
Opaque (Light does not pass through the object/cannot see throughF)
Non-flammable (Cannot be set fire to)