

Science

Thursday 14th January

Uses of everyday materials

WALT justify the particular uses of everyday materials

S2S I can

- Apply my knowledge of properties of materials
- Explain and give reasons

Think about the materials used to make each of the objects below. You don't have to write this down. Some objects may be made from more than one material. Use the list to help you.



Chair



Sharpener



Pencil



Glasses



Balloons



Door handle



Keys



Saucepan



Book



Barbecue



Coat



Shoes

Materials:

rubber
metal
wood
plastic
glass
cotton
leather

Woolly Saucepan

Could I have
a woolly saucepan
a metal jumper
a glass chair
and a wooden window-pane please?

Er-sorry – I mean
a woolly chair
a glass jumper
a wooden saucepan
and a metal window-pane please?

Er-sorry – I mean
Oh – blow it!
You know what I mean, don't you?



Have you ever thought about why particular materials are used to make particular everyday objects?

Come up with a list of the five silliest or most inappropriate materials everyday objects could be made from.

For example:

- A concrete car tyre
- Scissors made from ice
- A polystyrene knife

Think about why it would be silly or inappropriate to make those objects from those materials.

Different materials have different properties. [Look at the list below and make sure you understand what each property means.](#) Use the Materials Knowledge Organiser (on the website from Tuesday) and your learning from Tuesday to help you.

smooth	transparent	flammable
flexible	translucent	thermal conductor
magnetic	opaque	thermal insulator
non-magnetic	waterproof	electrical conductor
absorbent	rigid	electrical insulator
permeable	brittle	hard

Let's think about why some objects are made from particular materials.
Have a look at the items below and think about what their main task or purpose is.
For example:



Chair

Main task or purpose:
To be sat on



Boxing gloves

Main task or purpose:
To protect a boxer's hands

window



towel



plug socket



woolly jumper



window



Main task/purpose:

To let light in

plug socket



Main task/purpose:

To protect from electric shocks

towel



Main task/purpose:

To dry something

woolly jumper



Main task/purpose:

To keep a person warm

Now think about the main material each object is made from and which property or properties are most useful for the object's purpose.

window



Main task/purpose:
To let light in

Main material: glass
Useful property: transparent

plug socket



Main task/purpose:
To protect from electric shocks

Main material:
Useful property:

towel



Main task/purpose:
To dry something

Main material:
Useful property:

woolly jumper



Main task/purpose:
To keep a person warm

Main material:
Useful property:

Now think about the main material each object is made from and which property or properties are most useful for the object's purpose.

window



Main task/purpose:
To let light in

Main material: glass
Useful property: transparent

plug socket



Main task/purpose:
To protect from electric shocks

Main material: plastic
Useful property: electrical insulator

towel



Main task/purpose:
To dry something

Main material: cotton
Useful properties: absorbent, soft

woolly jumper



Main task/purpose:
To keep a person warm

Main material: wool
Useful properties: thermal insulator, soft

Your Task:

Find three different objects in your house. In your book draw each item and write:

- What the object's main purpose is
- What main material it is made from
- What property or properties of that material are most useful for the purpose of the object

If you are unsure, look back the previous slides again.
Remember to use correct properties of materials vocabulary.

