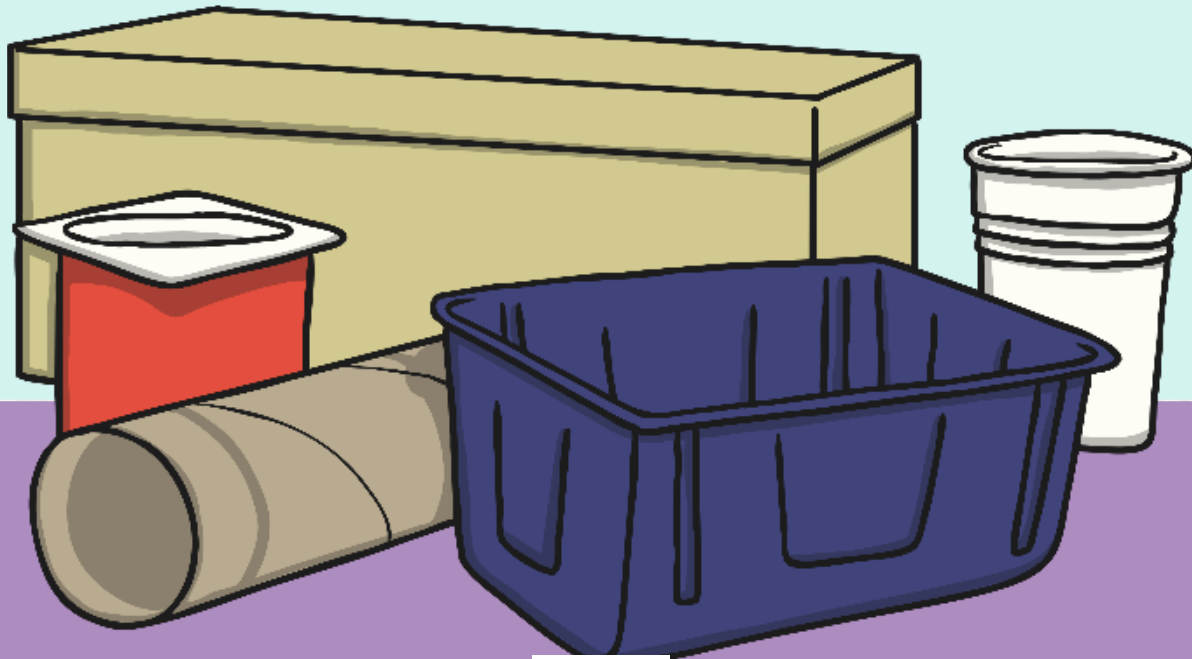




Science

Uses of Everyday Materials

Comparing Suitability



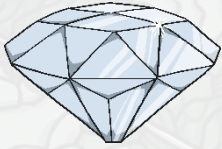
Aim

- I can compare the suitability of different everyday materials.

Success Criteria

- I can explain why different materials can be used to make the same object.
- I can tell you which properties make some materials suitable for different purposes.
- I can tell you which properties make some materials unsuitable for different purposes.

Properties



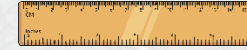
hard



soft



stretchy



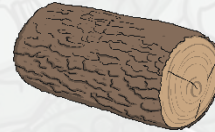
stiff



shiny



dull



rough



smooth



bendy



not bendy



absorbent



not absorbent



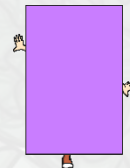
waterproof



not waterproof



transparent



opaque

Reasons for Using Materials



glass

Why are window panes made from glass?

What is it about glass that makes it a good material for window panes?

Why wouldn't other materials be as suitable?

Reasons for Using Materials



Which material do you think is best to make a ruler from? Why?

When might a **plastic** ruler be more suitable?

When might a **wooden** ruler be more suitable?

When might a **metal** ruler be more suitable?



Spoons

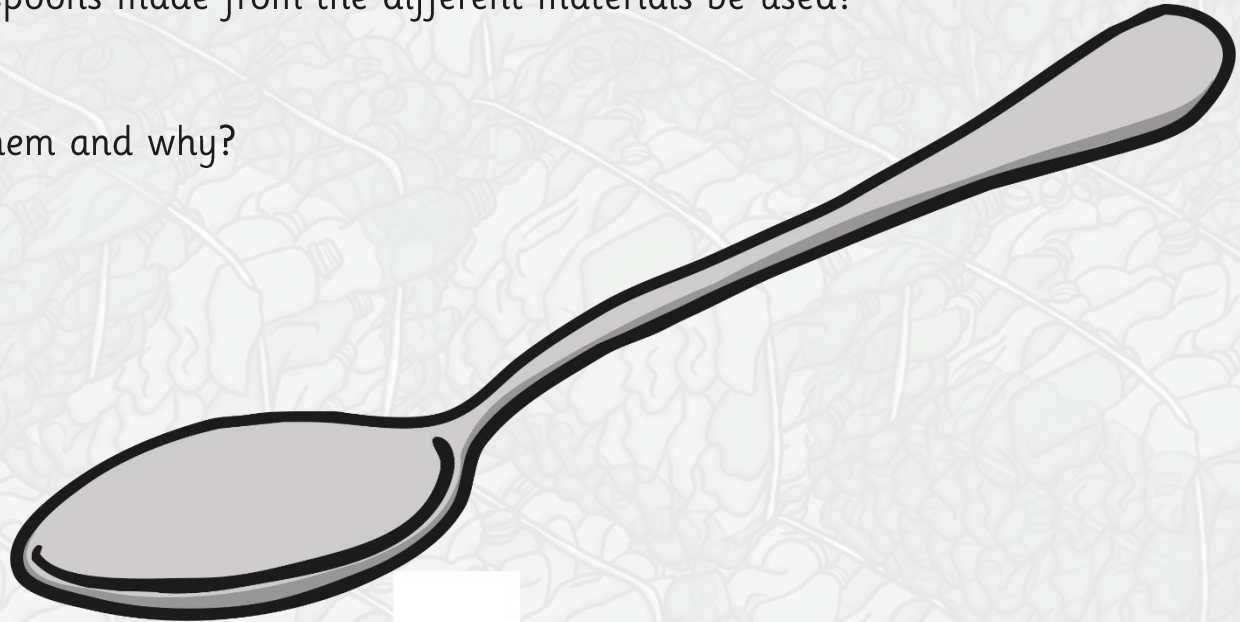


What material are spoons made from and why?

Why do you think spoons are made from different materials?

When would the spoons made from the different materials be used?

Who would use them and why?



Suitability

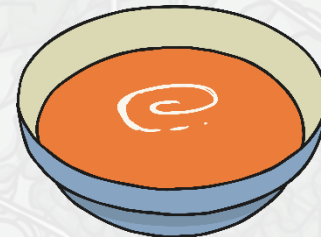


Although these materials are all suitable for spoons, the spoon you would choose to use would depend on what you were using it for.

Which spoon would you give a toddler to eat their dinner with? Why?

Which spoon would you use to make a cake with? Why?

Which spoon would you use to eat soup with? Why?



Suitability



Suitability means having the properties which are right for a specific purpose.

Metal, wood and plastic are all suitable materials for spoons.



Metal is suitable because it is strong and lasts a long time.



Wood is suitable because it is strong and has a high heat tolerance.



Plastic is suitable because it is light and cheap.

Discussion



Which material do you think would be the most suitable material for making coat hangers from and why?



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