

Willerby Carr Lane Primary School - Science

Topic: Materials

Year: EYFS

Strand: Chemistry

What should I already know?

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What will I know by the end of the unit?

Can you find something that is made from:

- wood?
- plastic?
- metal?
- glass?

- Objects all around us are made out of something that has come from somewhere.

What do you know about:

- wood?
- plastic?
- metal?
- glass?

Wood

- comes from trees
- paper and card come from trees
- the trees have to be chopped down and then turned into these things
- can be painted in different colours or can be left natural

Metal

- comes from rocks from underground
- rocks are heated in a furnace to get the metal out of them
- can then be used to make things

Plastic

- is made from oil and other things
- is made in a factory, where the oil needs to be heated up.
- can be made in lots of different colours.
- It can be made to look like other things e.g. wood or glass
- **Glass**
- is made from sand and other things
- is made in a factory, using a furnace
- can be made in different colours
- is sharp if broken and could injure us

Why do we make.... out of?

- Certain materials are better for one purpose than another e.g. glass for windows because it is see through

e.g. windows out of glass

and lets light in, but not used for babies toys because it breaks easily and can be sharp.

- Some objects e.g. bowls, can be made from glass, plastic, metal or wood.
- Many objects are made of more than 1 material.

What can you tell me about this object?

- Not all objects feel the same or look the same.
- We can use certain words to describe how objects feel or look (shiny/dull, soft/hard, rough/smooth)

Vocabulary

dull	lacking in brightness, not reflecting light.
factory	a building where things are made.
furnace	a large, hot oven used to change things.
glass	a material made from sand and other things.
hard	firm, not easily broken or bent.
materials	what something is made of.
metal	a solid material that comes from rocks.
object	a thing that can be seen and touched.
plastic	a material made from oil.
purpose	the reason for which we use something.
rough	having an uneven or bumpy surface; not smooth.
shiny	having a smooth surface, reflecting light
smooth	having an even and regular surface
soft	having a smooth surface, not rough, not hard or firm to the touch.
wood	a material that comes from a tree.

Investigate!

- Identify objects made from the different materials listed above
- Sort collection of objects by their material type
- Identify objects made from more than one material and name these materials

Common misconceptions

Some children may think:

- only fabrics are materials
- only building materials are materials
- only writing materials are materials
- the word 'rock' describes an object rather than a material
- 'solid' is another word for hard.