

## SCIENCE HOMEWORK – MATERIALS WEEK 1

W.C.8/6/2020

This week we are exploring different materials. Please watch the video and read the information on the website about different kinds of materials and their use:

<https://www.bbc.co.uk/bitesize/topics/z4339j6/articles/zx8hhv4>

Materials have different properties that make them useful for different jobs.

All objects are made of one or more materials that are chosen specifically because they have suitable properties for the task. For example, why do you think a water bottle is made of plastic? (because it is transparent allowing you to see the drink inside and waterproof so that it holds the water.)

Let's see if you can complete this chart, explaining the properties of each material and then reasoning why it was a good choice or not. Please explain why.

Object	Material	Properties of Material	Good choice? Why?
Jumper	Glass	<i>Transparent, rigid, heavy, hard...</i>	<i>No, because...</i>
Wall	Paper		
Window	Wood		
Car	Metal		
Table	Fabric		

Resources: a variety of objects made of different materials

### Word bank

Vocabulary: **absorbent**, Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see through, not see through, transparent, rigid, light.

Now look around yourself...identify objects made of different materials that you could see in three different locations – from your seat, around the room and in the garden/outside area or street.

	Survey 1	Survey 2	Survey 3
Materials	Things I can touch without leaving my seat.	Things I can find around the room.	Things I can see when standing outside.
Plastic	<i>Ruler, Pen...</i>	<i>Ruler, cup, bottle...</i>	
Rock			
Metal			
Wood			
Fabric			
Paper			
Rubber			
Glass			

Now write down what you found out from their survey:  
(Your conclusion)

*"I found out that.... because..."*

### CHALLENGE

Why aren't slides made from fabric?

Why are our clothes not made from cement?