

Year 2 Knowledge Organiser

How can we keep warm and dry?

Science- What will I learn?

How can materials be sorted into groups?

Materials can be sorted into groups based on their properties and features. For example, if they are hard, transparent or waterproof.

Why do materials have different uses?

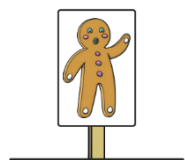
We must use different materials for different purposes because not materials are suitable. For example, a house cannot be made of paper because it is not strong or waterproof.

D & T What will I learn?

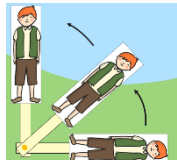
How can you make a picture move?

We will use a range of mechanisms such as levers, sliders and wheels. A range of equipment such as split pins, card, rulers and scissors will be used.

Key Knowledge



slider



lever



wheel



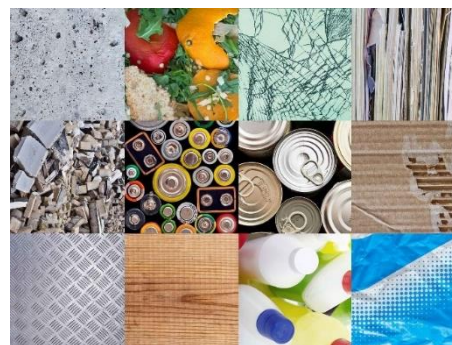
split pin

Previous learning

Year 1: Are these toys old or new?

You should already know:

The difference between the object and the material from which it is made.
To name and group materials based on their properties.



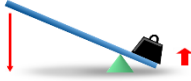
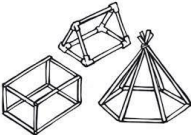
Key Knowledge

squash	
bend	
twist	
stretch	

Key Knowledge

Material	Properties/features	Examples of objects made of this material:
wood	hard, rigid, strong	tables, chairs, beds
metal	hard, strong, can be rigid or flexible, waterproof	pipes, taps, cars, foil
glass	hard, can be transparent, rigid, fragile, waterproof	windows, drinking glasses, spectacles (glasses you wear)
paper	flexible, not waterproof	books, newspapers, maps
plastic	can be moulded into any shape or colour, waterproof, can be flexible or rigid	toys, food containers, furniture
brick	hard, rigid, strong, waterproof	buildings, walls

Vocabulary Dozen

					
design	flexible	lever	material	mechanism	purpose
to plan something before you make it	can bend easily without breaking	a handle used to control or set the position of a part in a machine	a matter from which something can be made	the whole or parts of a machine	the reason for which something is done or created
					
rigid	strong	structure	suitable	texture	tools
unable to bend or be forced out of shape, not flexible	difficult to break or destroy or able to support a heavy weight or force	a thing made up of a number of parts joined together in a certain way	right for a particular person, purpose or situation	the appearance and feel of a surface	an object that is usually held with the hands and helps you to do something

Useful Weblinks



<https://www.bbc.co.uk/bitesize/topics/zsrfvwx/year/z7s22sg>



https://www.outstandingscience.co.uk/index.php?action=view_page&page=view_unit&unit=2d