Sithney C.P. School Knowledge Organisers

Science. Chemistry: Materials



What you should already know:

You should already know about similarities and differences in relation to materials. (EYFS KUW)

Key learning:

• Distinguish between an object and the material from which it is made.

- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock.
- Describe the simple physical properties of a variety of everyday materials.
- Compare and group together a variety of everyday materials on the basis of their simple physical properties.
- Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard for particular uses.

ey Vocabulary:		
object	A thing that can be used. For example a door, chair, car, table are all objects.	
material	Materials are what an object is made from.	
hard	Not easily broken or bent.	
soft	If something is soft , it is easy to cut, fold or change the shape of.	
stretchy	Can be pulled to make it longer or wider without breaking.	
shiny	Reflects light easily.	
dull	Doesn't reflect light. Doesn't look bright or shiny.	
rough	If something is rough, it feels and looks uneven or bumpy.	
smooth	Smooth objects have no lumps or bumps.	
bendy	Bendy things can be bent easily into a curved or folded shap	
not bendy	If something is not bendy , it can't be bent easily into a curved or folded shape.	
waterproof	If something is waterproof, it keeps water out. It keeps things dry.	
not waterproof	Not waterproof materials let water in.	
absorbent	If something is absorbent, it soaks liquid up.	
not absorbent	If something is not absorbent , it does not soak up liquid.	
transparent	Transparent objects can be seen through.	
opaque	Opaque objects can't be seen through.	

Materials:

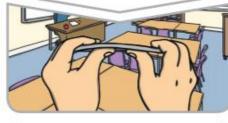


Key Vocabulary		
materials	Materials are what objects are made from.	
suitability	Suitability means having the properties which are right for a specific purpose.	
properties	This is what a material is like and how it behaves (soft, stretchy, waterproof).	

Squash an object by pushing both hands together.



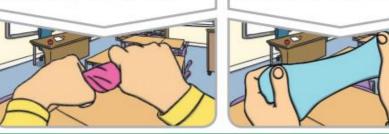
Bend an object by grabbing both ends of the object and bringing the ends inwards together.

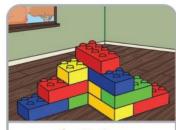


Stretch an object by pulling your

hands slowly and gently apart.

Twist an object by turning your hands in opposite directions.





plastic toys



wooden furniture



