

What?	
What does material mean?	All objects have a name like 'a table'. Material is what the object is made from.
Properties of materials	
Hard	Firm, may not be easily broken or bent
Soft	Easy to cut, fold or change shape
Stretchy	Can be made longer or wider without breaking
Brittle	Breaks or snaps easily
Rigid	Doesn't change shape easily
Shiny	Reflects light easily
Dull	Not very bright or shiny
Rough	Has an uneven surface
Smooth	An even surface with no lumps or bumps
Flexible	Can be bent easily
Waterproof	Keeps out water
Absorbent	Soaks up liquid easily
Transparent	Lets all of the light through – see through
Translucent	Lets some of the light through
Opaque	Does not let light through – not see through

Names of materials

wood
plastic
glass
metal
water
rock

Key Vocabulary

Properties	A way to describe something
Material	The 'stuff' an object is made out of
Liquid	Liquids can flow or be poured easily .
Surface	An outside part or layer of something
Object	A thing that can be seen and touched.

Materials and their properties

wood

hard, strong, rigid



metal

shiny, waterproof



plastic

bendy, waterproof



glass

transparent, smooth



water

runny, wet, clear



rock

hard, strong

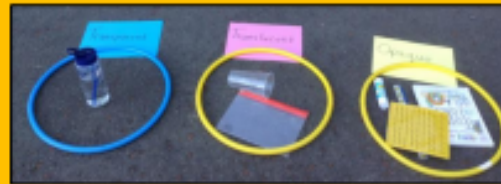


Key Vocabulary and Phrases

ask questions	Use the question words What, where, when why, how
observe closely	Use senses to watch what happens
compare and contrast	Look at two or more objects and describe similarities (what is the same) and differences (what is different)
sort and group	Organise materials by their properties
observe changes over time	Observe the absorbency properties of materials
diagram	A labelled picture
record	Drawings, diagrams, photos, writing and numbers to show what I have found out.

What I could investigate

Group materials by their properties



What material would be best to mop up a spillage?
Testing absorbency



Equipment I could use

Different everyday materials



Sorting rings to sort and group objects



Cups of water



Pencil and paper



Egg timers to observe changes over time



How I could record my findings?

Pictures For EXPLORING



Use this if you want to tell the story of what you did or what you observed, e.g. bread going mouldy

Table For FAIR TESTING/PATTERN SEEKING

What I Change	What I measure

Use this to record your information. You can transfer it into some of the other forms as well. It could be all numerical or words

Venn Diagram For CLASSIFYING/GROUPING



Use this to show how objects are grouped together and any that could be in either group. You can use more than 2 circles or groups, e.g. animals that live on land or on water, with those that do both in the middle

Questions to think about:
Why are objects (example – scissors) made out of certain materials?
Could you make a house out of sand? Why not?
What do you need to wear in the rain? Why? What are those items made of? Why?