

KS1 Knowledge Organiser—Science: Everyday Materials

Some common materials and their properties

Wood 	Hard, strong, stiff
Plastic 	Strong, shiny, bendy
Glass 	Transparent, smooth, stiff
Metal 	Hard, strong, shiny
Water 	Runny, wet, clear
Rock 	Hard, strong

What does *material* mean?

All objects have a name like 'a door'.
Material is the 'stuff' an object is made from

Names of some common properties of materials

Hard <i>Not easily broken</i>	Soft <i>Easy to cut, fold or change shape</i>
Stretchy <i>Can be made longer or wider without breaking</i>	Stiff <i>Doesn't change shape easily</i>
Shiny <i>Reflects light easily</i>	Dull <i>Not very bright or shiny</i>
Rough <i>Has an uneven surface</i>	Smooth <i>An even surface with no lumps or bumps</i>
Bendy <i>Can be bent easily</i>	Not bendy <i>Can't be bent easily</i>
Waterproof <i>Keeps out water</i>	Not waterproof <i>Lets water in</i>
Absorbent <i>Soaks up liquid easily</i>	Not absorbent <i>Doesn't soak up water easily</i>
Transparent <i>Able to see through it easily</i>	Opaque <i>Not able to see through</i>

Key Vocab

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



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Properties of an umbrella



Umbrellas are always waterproof

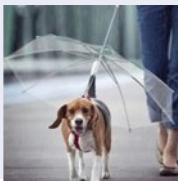


Umbrellas can be transparent



Umbrellas can be opaque

There are all sorts of umbrella designs



Groups of different materials

- Hard or soft?
- Stretchy or stiff?
- Shiny or dull?
- Rough or smooth?
- Bendy or not bendy?
- Waterproof or not waterproof?
- Absorbent or not absorbent?
- Transparent or opaque?

Soft

rubber, leather, wool, cotton, fabric

Transparent

ice, plastic, water, diamond, glass

Stretchy

Elastic band, Balloon, Slime, Curly Wurly

Hard

wood, metal, plastic, stone, brick, ceramic, ice, diamond, glass

Bendy

paper, plastic, rubber, fabric, leather, leaves, metal