

Some common materials and their properties

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

What does *material* mean?

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

Names of some common properties of materials

<p>Hard <i>Not easily broken</i></p>	<p>Soft <i>Easy to cut, fold or change shape</i></p>
<p>Stretchy <i>Can be made longer or wider without breaking</i></p>	<p>Stiff <i>Doesn't change shape easily</i></p>
<p>Shiny <i>Reflects light easily</i></p>	<p>Dull <i>Not very bright or shiny</i></p>
<p>Rough <i>Has an uneven surface</i></p>	<p>Smooth <i>An even surface with n lumps or bumps</i></p>
<p>Bendy <i>Can be bent easily</i></p>	<p>Not bendy <i>Can't be bent easily</i></p>
<p>Waterproof <i>Keeps out water</i></p>	<p>Not waterproof <i>Lets water in</i></p>
<p>Absorbent <i>Soaks up liquid easily</i></p>	<p>Not absorbent <i>Doesn't soak up water easily</i></p>
<p>Transparent <i>Able to see through it easily</i></p>	<p>Opaque <i>Not able to see through</i></p>

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



Properties of an umbrella

Umbrellas are always waterproof



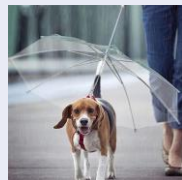
Umbrellas can be transparent



Umbrellas can be opaque



There are all sorts of umbrella designs



You can put materials into different groups by answering questions about the material

- 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?



Elastic band



Balloon

Stretchy



Slime



Curly Wurly



rubber



leather

Soft



wool



cotton



fabric



wood



metal

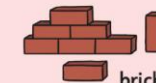


plastic



stone

Hard



brick



ceramic



ice



diamond



glass



ice



plastic

Transparent



water



diamond



glass



paper



plastic



rubber

Bendy



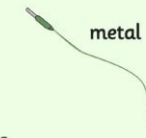
fabric



leather



leaves



metal