

## Some common materials and their properties

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

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

## Key Vocab

1	<b>Properties</b>	A way to describe something
2	<b>Material</b>	The 'stuff' an object is made out of
3	<b>Liquid</b>	Liquids can <b>flow</b> or be <b>poured</b> easily
4	<b>Surface</b>	An outside part or layer of something
5	<b>Object</b>	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

### Hard



stone



brick



ceramic



ice



diamond



glass



ice



plastic

### Transparent



water



diamond



glass



paper



plastic



rubber

### Bendy



fabric



leather



leaves



metal

