



# Year 1: Why are objects made out of different materials?

## Working Scientifically

	<p>Group materials based on their properties. Which materials are smooth, rough, transparent and flexible? Which materials float and which sink?</p>
	<p>Which is the best material to use for the Three Little Pigs' house - to protect them from the wolf?</p>

**Key Knowledge:**  
 An object is a thing made from different materials, e.g. car, table, book, pencil, shoes.  
 Material is what an object is made from, e.g. a window is made out of glass and a car is made out of metal.  
 Materials are all different: hard or soft; rigid or flexible or waterproof.  
 Different materials are used to make different objects.

Waterproof	Absorbent
Liquid runs off it.	It can soak up a liquid.

Smooth	Rough
Flat with no bumps.	Uneven & bumpy

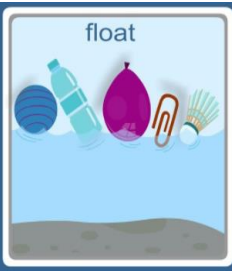
Rigid	Flexible
Difficult to bend or break.	Easy to change shape or fold.

Transparent	Opaque
You can see through it.	You can't see through it.

Light	Heavy
Not much weight.	Lots of weight.

This is a **bottle** (object) and it is made out of **glass** (material). It is **hard, rigid and transparent**.  
 This is a **watering can** and it is made out of **plastic**. It is **hard, smooth and light**.

							
<b>Glass</b>	<b>Plastic</b>	<b>Metal</b>	<b>Wood</b>	<b>Rubber</b>	<b>Paper</b>	<b>Fabric</b>	<b>Brick</b>



**Plastic**

- Plastics can be made from lots of different materials.
- Plastic can be tough or bendy, and so it is used for many different purposes.

**Wood**

- Wood is made from trees.
- Wood is a hard and strong material.
- Woods include oak, pine and ash.

**Metal**

- Metals are made from rocks.
- Metal is strong and shiny.
- Metals include aluminum, iron and steel.