

EVERYDAY MATERIALS KNOWLEDGE ORGANISER



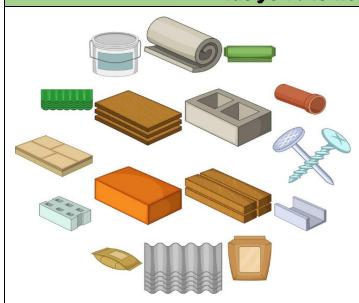
boxes and is then used for

packaging items. It can be used

for protection, e.g. protecting

floors when painting.

What you should already know...



- -Materials are the substances that things are made from.
- -We use lots of different materials every day, e.g. metal, plastic, wood, and glass.
- -Different materials have certain properties, e.g. glass is see-through, metal is strong and often shiny, etc.
- -Composites are made from two or more materials together.
- Some materials are used to make many things.

	Properties of Materials							
Material	lmage	Properties	What could it be used for?					
Metal		-Metals are often strong, shiny, hard and long-lasting. -Metals can be hammered into different shapes.	 -Metals can be made into things like pots and pans. -Metals can stretched into wires and rods. 					
Glass		-Glass can be strong, but thin glass shattersGlass is transparent and waterproof. It can be made into different shapes.	-Glass is most often used to make windows and glassesIt is also used in making mirrors, table-tops and windscreens.					
Wood		-Wood is hard and strong; -Wood is long-lasting and is a natural product. -Wood is flammable.	-Wood is often used to build furniture, like benches and desks. -Wood can be used to build houses and cabins.					
Plastic		-Plastics can be tough or flexible and can be made into any shape. Plastics can be dyed different colours and can be made transparent.	 -Plastics can be used to make packaging, bottles and toys. -Plastics can be moulded into plates, knives and forks. 					
Rubber		-Rubber is extremely tough, but also very flexible. -Rubber is elastic and also waterproof. Rubber doesn't tear easily.	 -Not including food and drinks, water is still used in many, many products. For example, it is used in making paints, toothpastes, shampoos and cement. 					
Brick	**************************************	-Bricks are very hard and strong. They are difficult to break. Bricks are thick and store heat well.	-Bricks are normally attached together with mortar and are used to make buildingsThey are also used for paving.					
Paper		-Paper is often thin and can be made into lots of different shapes. Paper can be torn. It goes soggy when wet.	-Paper is normally used for writing. Paper is used in diaries, notebooks and for printing on. Paper is used for posters/displays.					
	The second second	-Cardboard is often thin but is	-Cardboard is often turned into					

-Cardboard is often thin but is

firmer and tougher than paper.

Cardboard is more difficult to

tear. It goes soggy when wet.

Development of Materials

John Dunlop

- -John Dunlop is famous for developing the pneumatic (air-filled) tyre.
- -He did this, at first, to improve the tyres on his son's bicycle!
- -He used his understanding of rubber to fit it to a wooden disc. He then used an inflated tube of sheet rubber to blow up the tyre.

Charles Macintosh

- -Charles Macintosh is best known for inventing the raincoat.
- -He discovered a way in which rubber could be placed between two layers of cloth, to make it waterproof.
- -His name lives on today a raincoat is often called a Macintosh or Mac.

John McAdam -John McAdam was the first person to think of tarmac roads.

- -Roads used to be made from clay, earth, or chalk, but these materials were messy and not very smooth.
- -He spread hot tarmac on a road, adding lime chippings & flattening.



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Properties	of	Materials	Vocabula	rv
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Cardboard

Hard Smooth Absorbent Bumpy **Bouncy** Dull **Flexible** Flammable Squashy Translucent Waterproof Soft Firm