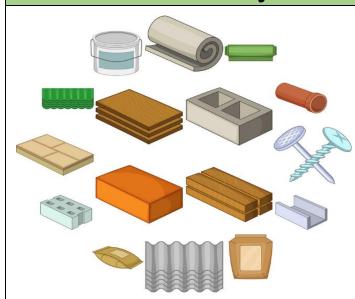


Use of EVERYDAY MATERIALS KNOWLEDGE ORGANISER



What you should already know...



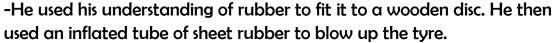
- -Materials are the substances that things are made from.
- -We use lots of different materials every day, e.g. metal, plastic, wood, and glass.
- -Different materials have certain properties, e.g. glass is see-through, metal is strong and often shiny, etc.
- -Composites are made from two or more materials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

Development of Materials

John Dunlop





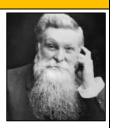


Charles Macintosh

- -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.







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

Properties of Materials Vocabulary

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