Use of EVERYDAY MATERIALS

| What you shou | | Properties of Materials | | | | | |
|--|--|-------------------------|-------------|---|---|--|--|
| | -Materials are the <u>substances</u> 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. | | Material | Image | 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 shatters. -Glass is transparent and waterproof. It can be made into different shapes. | -Glass is most often used to make windows and glasses. -It is also used in making mirrors | |
| | | | 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. | |
| Development of Materials | | | 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. | |
| -John Dunlop is famous for developing the -He did this, at first, to improve the tyres of -He used his understanding of rubber to fit used an inflated tube of sheet rubber to blo | A | Rubber | 0 | -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. | | |
| Charles Macintosh -Charles Macintosh is best known for invent -He discovered a way in which rubber coul | 25% | Brick | 6-2-5-2-5-C | -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 buildings. -They are also used for paving. | | |
| 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. | | | 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 us | | |
| | | | Cardboard | | -Cardboard is often thin but is firmer and tougher than paper. Cardboard is more difficult to tear. It goes soggy when wet. | -Cardboard is often turned into boxes and is then used for packaging items. It can be used for protection, e.g. protecting floors when painting. | |

| _ | | | | | Properties of Materials Vocabulary | | | | |
|------|---------|--------|-----------|-------|------------------------------------|------|----------|-----------|-------------|
| Hard | Squashy | Smooth | Absorbent | Bumpy | Bouncy | Dull | Flexible | Flammable | Translucent |

Assessment Question: Why are different 😽 🐤 materials used for different purposes?



Waterproof

Firm

Soft