Laughton All Saints' Knowledge Organiser

YEAR 1

CHEMISTRY: What are things made from?

SCIENCE

KEY VOCABULARY



Object: a thing that can be used e.g. a pencil, door, a car



Material: something that an object is made of e.g. wood, plastic



Hard: it is not easily broken or bent



Soft: it is easy to change the shape of



Rough: it looks or feels bumpy or uneven



Smooth: it has no lumps or bumps



Bendy: it can be folded easily



Stretchy: it can be pulled and made longer or wider



Waterproof: it keeps water out and keeps things dry



Not waterproof: it lets water in and does not keep things dry



Absorbent: it soaks up water



Not absorbent: it does not soak up water

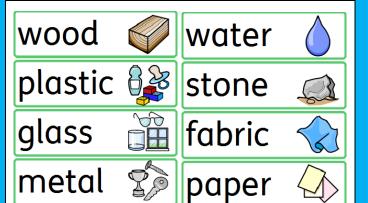


Transparent: you can see through it



Opaque: you cannot see through it

KEY CONCEPT – there are many different materials in the world that we use



These are just some of the materials that we use.

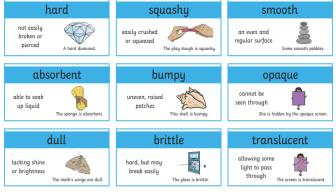
Materials are used to make objects.

Objects can then be used for different purposes. For example, a chair is made out of wood so that it is strong enough to sit on.

STICKY KNOWLEDGE

- Natural materials come from our environment.
- 2. Manufactured materials come from natural materials but have been changed by humans
- 3. Synthetic materials are made by humans
- 5. Some materials have multiple uses.eg, metals can be used in coins, cans and cars.
- 6. Objects can be changed by the effect of forces they bend, squash, twist and stretch.

KEY CONCEPT -materials are chosen by the suitability of their properties



- Glass can be used to make windows because it is transparent.
- Rulers can be made from wood, plastic or rubber because these materials are smooth and can be cut straight.
- Spoons are made from **metal**, because it is waterproof and can be cleaned easily.
- They can also be made from plastic for children because plastic is light and it cannot hurt children's growing teeth.

KEY CONCEPT - Some materials can be shaped

The shape of some solid objects can be changed depending on what material they are made from. Squashing, Bending, Twisting and Stretching

