

## KS1 Science Knowledge Organiser

### Topic: Everyday Materials-Autumn 1st

#### Key questions:

- Can you identify the materials that objects are made from?
- Can you identify why that object is made of that material?
- Can you recognise that some objects are made from more than one material?
- Can you describe materials according to their properties? (waterproof/transparent/shiny/dull etc)

#### Key Information

##### Materials

The word 'material' doesn't just mean fabric. When we are identifying materials in science, we are thinking of what that item is made from. Objects may be made from wood, plastic, stone, brick, metal, glass, paper or fabric. There are many more materials too!



plastic



wood



metal



glass



fabric



paper



stone



brick



water

##### Properties of Materials

We can also describe materials according to their properties. Some of the vocabulary that we will be looking at during this unit includes; waterproof/not waterproof, transparent/translucent/opaque, dull/shiny, hard/strong, strong, flexible, smooth/rough, absorbent/non-absorbent.

##### Materials and their Uses

Some materials may be more suitable than others for specific objects. For example, windows made out of wood would be useless as we wouldn't be able to see out. They are not transparent. Brick however is strong, resists water and is hard – a perfect material for building structures.

#### Did you know...?

- Glass is made from a mixture of sand and other materials which are melted together at very high temperatures.
- Glass is 100% recyclable and can be recycled repeatedly.
- Plastic can be moulded into different shapes to make different objects, from drinking bottles to school chairs!
- Rock is a natural material made up of minerals. It has been used by humans to make tools and shelters for millions of years!

#### Key vocabulary

- |              |              |               |                |
|--------------|--------------|---------------|----------------|
| ○ materials  | ○ hard       | ○ floppy      | ○ sharp        |
| ○ wood       | ○ bendy      | ○ transparent | ○ blunt        |
| ○ plastic    | ○ stiff      | ○ shiny       | ○ bendy        |
| ○ glass      | ○ waterproof | ○ rough       | ○ strong       |
| ○ metal      | ○ dull       | ○ smooth      | ○ magnet       |
| ○ rock       | ○ opaque     | ○ flat        | ○ magnetic     |
| ○ properties | ○ absorbent  | ○ bumpy       | ○ non-magnetic |
| ○ soft       | ○ stretchy   |               |                |