

**Science - Year 1 – spring 2 - Materials**

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**Knowledge**

Objects are things that you can touch or see.

Objects are made from materials.



**Skills**

Ask and enquire.

Sort and classify.

Observe closely using simple equipment.

Perform simple tests.

Identify and classify.

Gather and record data.

Talk about your learning



**Books**

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| Vocabulary | Meaning |
| absorbent  | A material that soaks up liquid easily. |
| bendy  | An object that bends easily into a curved shape. |
| dull | A colour or light that is not bright. |
| elastic | A rubber material that stretches whenyou pull it and returns to its original size and shape when you let it go. |
| manmade  | Things that are created by people.  |
| natural | Things that exist in nature and are notmade by people. |
| opaque | If an object or substance is opaque,you cannot see through it. |
| rough  | Uneven and not smooth. |
| shiny  | Things that are bright and reflect light. |
| smooth | No roughness, lumps or holes. |
| stiff  | Firm or does not bend easily. |
| stretchy | Slightly elastic. |
| transparent  | If an object is transparent, you can seethrough it. |
| waterproof | Does not let water pass through  |

**What I will know and be able to do at the end of the topic.**

**Growth Mindset Strategies**

**What I should be able to do and know now.**

**Knowledge**

**What is a material?**  A material is something an object is made from. This includes metal, fabric, plastic, stone and wood.

**Can you identify which material a common object is made from?** I can identify an object made from wood, plastic, metal, stone and glass.

**Can you describe a material by its properties?**  – I can use the words rough, smooth, hard, soft, shiny, dull, stretchy, opaque, transparent to describe objects.

**Why do some materials suit certain objects better than others?** –

Why are houses made out of brick? – They are hard, rigid and tough.

Why are clothes made out of fabric? – It is flexible and stretchy.

Why are tables made of wood? – It is hard and sturdy.

**What is the best material for an umbrella?** – A fabric that is waterproof is the best material for an umbrella so it does not let the rain in.

**Skills –** I can predict and test the best materials for a particular purpose

**Knowledge**

Objects feel and look different based on the material they are made from.

We use different materials when painting and making art.

**Skills**

I can listen attentively in a range of situations.

I can answer ‘how’ and ‘why’ questions about my experiences and in response to stories or events.

I can talk about the features of my own immediate environment and how environments might vary from one another.

**What I will be learning**

1. How to sort materials according to what they are made of.
2. Identifying objects that are made from a particular material.
3. Grouping materials according to their properties.
4. How to carry out an experiment to test the suitability of materials for a particular purpose.