

What I will know by the end of the unit:

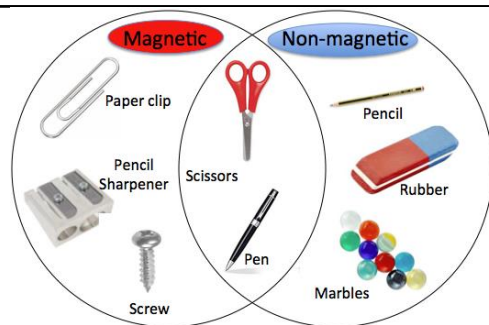
- I can distinguish between an object and the material it is made from.
- I can identify and name a variety of everyday materials.



- I can describe the physical properties of a variety of everyday materials.



- I can compare and group together a variety of everyday materials on the basis of their simple physical properties.



Key Vocabulary

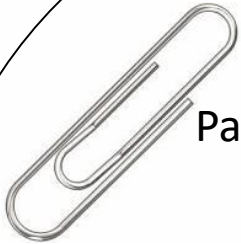
| | |
|--------------|--|
| Absorbent | A material that soaks up liquid. |
| Bendy | An object that bends easily into a curve. |
| Dull | Something that is not bright. |
| Elastic | A material that stretches when you pull it and returns to its original size and shape when you let go. |
| Magnetic | A material that is attracted (drawn closer) towards a magnet. |
| Non-magnetic | A material that isn't attracted (drawn closer) towards a magnet. |
| Material | What an object is made out of. |
| Object | A thing that can be seen and touched. |
| Opaque | An object or substance that you cannot see through. |
| Properties | A way to describe a material. |
| Rough | Uneven and not smooth. |
| Shiny | Things are bright and reflect light. |
| Smooth | No roughness, lumps or holes. |
| Soft | Not rough or hard. |
| Rigid | Firm and does not bend. |
| Stretchy | Slightly elastic. |
| Transparent | Something you can see through. |
| waterproof | A material that does not let water pass through. |

Investigate!

- How are objects similar/ different based on the materials they are made from?
- 'We're going on a materials hunt' – How many materials can you find?
- What is the best material to fix Mrs. Boyd's umbrella?
- What material is the best for making a house for the three little pigs?
- How can I help my lego man escape from the ice?

Magnetic

Non-magnetic



Paper clip



Pencil Sharpener



Screw



Scissors



Pen



Pencil





Rubber



Marbles

Some common materials and their properties

| | |
|--|-----------------------------------|
| <p>Wood</p>  | <p>Hard, strong, stiff</p> |
| <p>Plastic</p>  | <p>Strong, shiny, bendy</p> |
| <p>Glass</p>  | <p>Transparent, smooth, stiff</p> |
| <p>Metal</p>  | <p>Hard, strong, shiny</p> |
| <p>Water</p>  | <p>Runny, wet, clear</p> |
| <p>Rock</p>  | <p>Hard, strong</p> |

What does *material* mean?

All objects have a name like 'a door'.
Material is the 'stuff' an object is made from

Names of some common properties of materials

| | |
|---|---|
| <p>Hard <i>Not easily broken</i></p> | <p>Soft <i>Easy to cut, fold or change shape</i></p> |
| <p>Stretchy <i>Can be made longer or wider with a pull</i></p> | <p>Stiff <i>Doesn't change shape easily</i></p> |
| <p>Shiny <i>Reflects light easily</i></p> | <p>Dull <i>Not very bright or shiny</i></p> |
| <p>Rough <i>Has an uneven surface</i></p> | <p>Smooth <i>An even surface with n lumps or bumps</i></p> |
| <p>Bendy <i>Can be bent easily</i></p> | <p>Not bendy <i>Can't be bent easily</i></p> |
| <p>Waterproof <i>Keeps out water</i></p> | <p>Not waterproof <i>Lets water in</i></p> |
| <p>Absorbent <i>Soaks up liquid easily</i></p> | <p>Not absorbent <i>Doesn't soak up water easily</i></p> |
| <p>Transparent <i>Able to see through it easily</i></p> | <p>Opaque <i>Not able to see through</i></p> |

Key Vocab

| | | |
|---|-------------------|--|
| 1 | Properties | A way to describe something |
| 2 | Material | The 'stuff' an object is made out of |
| 3 | Liquid | Liquids can flow or be poured easily |
| 4 | Surface | An outside part or layer of something |
| 5 | Object | A thing that can be seen and touched |

