



Year 1 Science - Why do we need different materials?

Key Vocabulary

Material	A substance from which things are made.
Natural	Materials that come from nature, like wood and stone.
Man-made	Materials that are made by people, like plastic and metal.
Property	A quality or characteristic of a material, such as hardness or colour.
Texture	The feel or appearance of a surface; smooth or rough.
Flexible	Able to bend without breaking.
Transparent	Allowing light to pass through so objects behind can be seen.
Opaque	Not able to be seen through; not transparent.

Fun Facts!

- Did you know? Wood is one of the oldest materials used by humans!
- Plastic was invented in the early 1900s and has changed many things we use every day!
- Glass can be recycled over and over without losing its quality!

What are Materials?

Materials are the substances used to make things. They can be natural or man-made.

Types of Materials:

- **Wood:** Comes from trees; used to make furniture and paper.
- **Metal:** Strong and shiny; used for coins and tools.
- **Plastic:** Flexible and light; used for bottles and toys.
- **Glass:** Transparent and fragile; used for windows and jars.
- **Fabric:** Soft and can be made from cotton or wool; used for clothes.

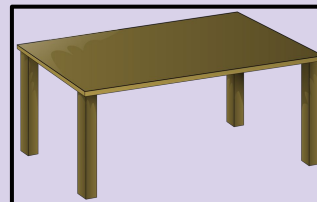
Properties of Materials:

- **Hard:** Can't be easily scratched (e.g., metal).
- **Soft:** Can be easily compressed or bent (e.g., fabric).
- **Rough:** Has a bumpy texture (e.g., wood).
- **Smooth:** Has a flat, even texture (e.g., glass).
- **Transparent:** Can see through it (e.g., glass).
- **Opaque:** Cannot see through it (e.g., wood).

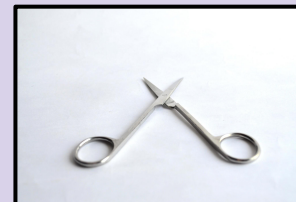
Uses of Materials:

Different materials are used for different purposes based on their properties. For example:

- Plastic is used for water bottles because it is light and waterproof.
- Glass is used for windows to let in light while keeping out the weather.



Wooden table



Metal scissors



Plastic objects



Glass cup