

Year 1 and 2: Materials Knowledge Mat

Subject Specific Vocabulary Dozen

materials	Is what something is made of, e.g. wood or plastic.
properties	A characteristic of something. Eg. Wood is hard
flexible	A material that can bend easily.
absorbent	A material that soaks up liquid easily.
waterproof	A material that does not allow water or liquid through
shiny	A material that is sparkly or glossy and sometimes glittery.
transparent	A material that allows you to see objects through it.
reflective	A material that reflects light well and can be seen easily in the dark.
rigid	Difficult or impossible to bend.
opaque	A material you cannot see through.
natural materials	Materials found in nature.
man-made materials	Materials that have been produced by humans.



What I will know at the end of the unit:

- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- How the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
- Be able to distinguish between an object and the material from which it is made
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- Describe the simple physical properties of a variety of everyday materials
- Compare and group together a variety of everyday materials on the basis of their simple physical properties.



Exciting Books



Sticky Knowledge about materials?

- All objects are made of one or more materials that are chosen specifically because they have suitable properties for the task. For example, a water bottle is made of plastic because it is transparent allowing you to see the drink inside and waterproof so that it holds the water.
- When choosing what to make an object from, the properties needed are compared with the properties of the possible materials, identified through simple tests and classifying activities.
- A material can be suitable for different purposes and an object can be made of different materials. Objects made of some materials can be changed in shape by bending, stretching, squashing and twisting. For example, clay can be shaped by squashing, stretching, rolling, pressing etc. This can be a property of the material or depend on how the material has been processed e.g. thickness.