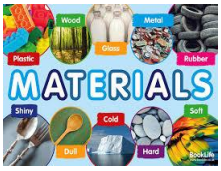


Science: Materials and their Properties
Year 2 Autumn 2



Key Vocabulary

opaque	not able to be seen through; not transparent.
transparent	(of a material or article) allowing light to pass through so that objects behind can be distinctly seen.
translucent	(of a substance) allowing light, but not detailed shapes, to pass through; semi-transparent.
flexible	capable of bending easily without breaking.
rigid	unable to bend or be forced out of shape; not flexible.
twist	form into a bent, curling, or distorted shape.
squash	crush or squeeze (something) with force so that it becomes flat, soft, or out of shape.
stretch	(of something soft or elastic) be made or be capable of being made longer or wider without tearing or breaking.

Enquiry Questions

- Would wood be a suitable material to build a school?
- How many different materials are used in your bedroom?
- What material would be best to build a den out of?
- Which materials can be changed by bending?
- How many materials can you find that will change shape if you squash them?
- What is most stretchy material in your house?

Scientific Knowledge

- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.
- Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
- Distinguish between an object and the material from which it is made.
- Identify and name a range of everyday materials (wood, plastic, metal, water, rock).
- Describe the simple physical properties of a variety of everyday materials.
- Compare and classify a variety of materials based on their simple physical properties.

Why don't you…

Design a new toy that would withstand even the roughest toddler? Think carefully about what materials you would use.
Create a tally chart of the different materials in your house?
Explain why windows aren't made of metal?

Website Links

https://www.bbc.co.uk/bitesize/topics/zg4skhv/articles/zd9w8hvhttp://

https://www.youtube.com/watch?app=desktop&v=eCNade4GFpY

Scientific Concepts

Changes
The act of something becoming something different.

Comparison
To compare two or more things, including their similarities and differences.

Scientific Skills

- Asking simple questions and recognising that they can be answered in different ways.
- Observing closely.
- Using simple equipment.
- Performing simple tests.
- Identifying and classifying.
- Using their observations and ideas to suggest answers to questions.
- Gathering and recording data to help in answering questions.