

Spring 1: Properties of Materials

What you've learnt already

To identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock and recognise when they have been used to make objects (Y1 Autumn 2)

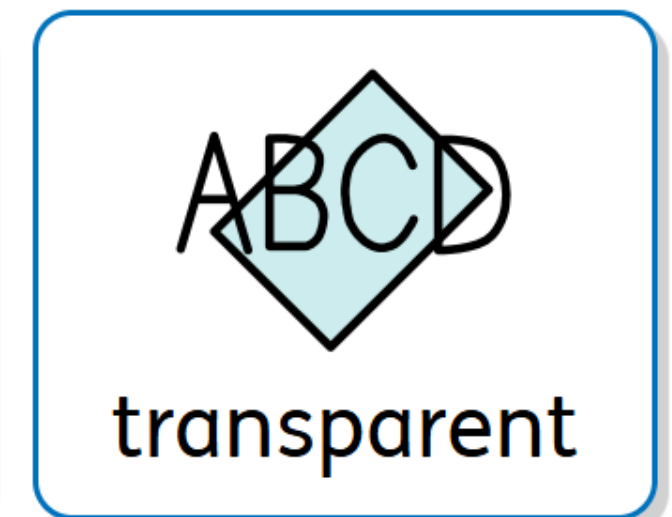
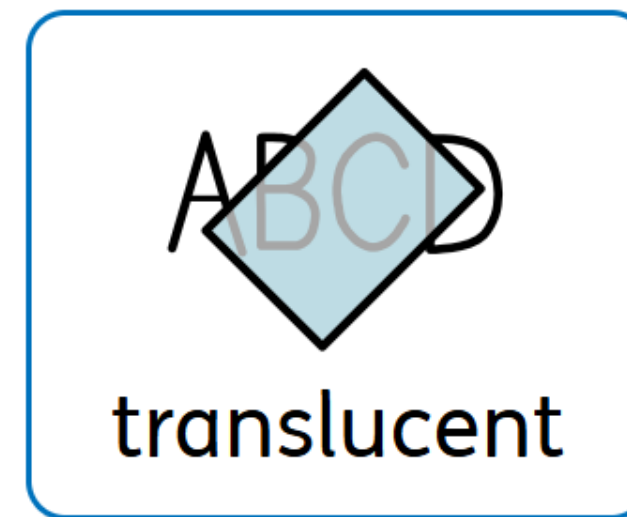
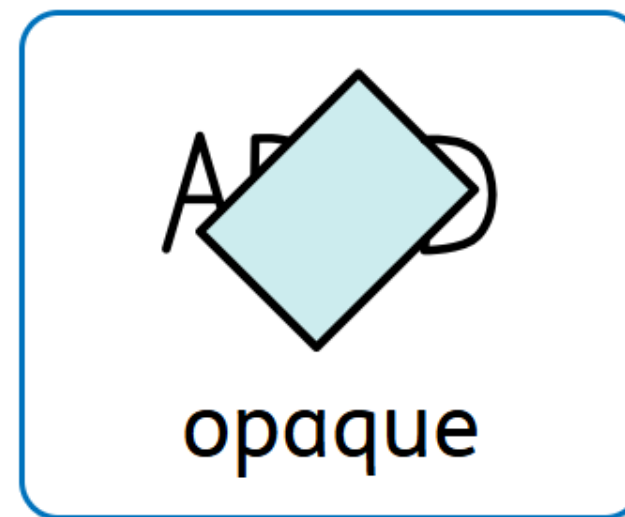
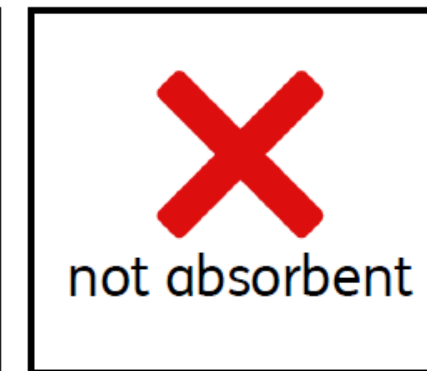
Choices

- Which materials to use as part of their enquiry
- Deciding how to group and sort objects

Key Vocabulary

| | |
|------------|--|
| Test | to carry out a science enquiry to find something out |
| Bend | to move from a straight to a curved shape |
| Flexible | able to bend easily without breaking |
| Opaque | (a material that) you cannot see through |
| Rigid | unable to bend |
| Waterproof | does not let water pass through it |

Diagrams



Lesson Sequence

- L1 Can the same object be made from different materials?
- L2 What properties do materials have?
- L3 Does it bend or stretch?
- L4 Do all materials get wet?

Key Knowledge

- Objects are made from one or more materials.
- Objects can be sorted in various ways.
- Materials should be used carefully, can often be reused and some can be recycled.
- Materials have physical properties that make them useful for different purposes.
- Some materials can be bent or stretched, making them useful for particular purposes.
- Some materials are absorbent, 'soaking up' liquid on contact and some materials are waterproof, making them useful for particular purposes.

Properties of Materials

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|--|--|
| What does opaque mean? | What does rigid mean? |
| Can you name a material that bends? | Can you name some materials? |
| What materials can a _____ be made from? | Can you name some materials that are waterproof? |
| Do all materials get wet? | I wonder what the best material would be for _____? E.g. umbrella |

| | | | |
|-----------|------------|--------------|-------------|
| One Point | Two Points | Three Points | Four Points |
|-----------|------------|--------------|-------------|