

## Science Key Learning Materials

- 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, rock (*and brick, paper and cardboard*).
- 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.
- Ask and answer questions about everyday materials so that they become familiar with the names of materials and properties such as: hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent; opaque and transparent.
- Explore and experiment with a wide variety of materials.

# MATERIALS

Key Questions	Key Vocabulary
How do you know if a material is waterproof?	<b>Waterproof</b> – a material that doesn't let water through it
What do some materials have in common (Sorting and classifying activities)	<b>Texture</b> – the feel or appearance of a material
What would be the best material to keep teddy dry?	<b>Transparent</b> – to be able to see through it
What would be the best material to keep teddy warm?	<b>Opaque</b> – to not be able to see through it
Which materials float and why?	<b>Flexible</b> – to bend easily without breaking
Why do some materials rust?	<b>Hollow</b> – having a hole or empty space inside

### What will we be learning about in this topic?

- Materials Trail Challenge - twenty objects will be hidden along a trail in the outdoors. Spot as many objects as you can. Which objects were easier to find and which were more difficult?
- Feely bag game – what can you feel? Describe it to your friend. Make a collection of words.
- Make collections of objects made of the same materials. How are they the same/ different?
- Outdoor Materials Bingo
- I-spy materials game
- Sorting Circles game - Can you sort the objects into rough and ...?
- Can you sort the objects into hard and ...?
- Can you sort the objects into shiny and ...?
- Can you sort the objects into bendy and ...?
- Experiments – Can you find the best material to keep Teddy dry? Can you find the best material to keep Teddy warm? Can you make a waterproof bag for a pirate to keep his treasure map in?
- Challenge – the pirate needs to cross a river. How can you make a strong bridge?

