

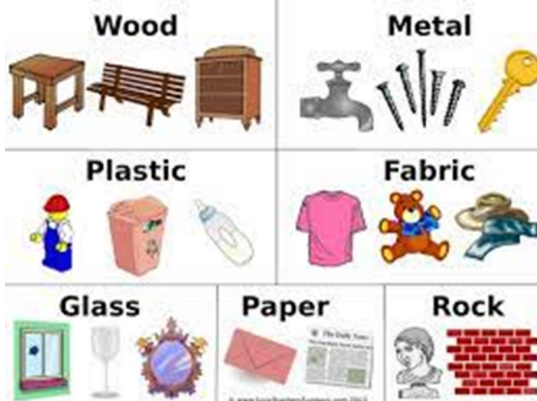
Science- Everyday Materials

Innovation

Prior Knowledge

In EYFS the children learnt objects are made from different materials including wood, plastic, metal and that different materials are used for different purposes. They have explored the natural world around them and described what they see, hear and feel whilst outside.

In Year 1 the children identified and named a variety of everyday materials e.g. wood, plastic, glass, metal, water and rock. They compared and grouped together a variety of everyday materials on the basis of their properties and described the simple physical properties of a variety of everyday materials. They can distinguish between an object and the material that it is made from.



Key Vocabulary

Tier 1: Wood, metal, plastic, glass, rock, water, ice, shapes, object, puddle

Tier 2: Materials, properties, sorting, grouping, fabric, same, different, heat, melt, changes

Tier 3: Waterproof, not waterproof, absorbent, not absorbent, opaque, transparent, physical properties, factor, evaporation, particles

How can ice change its shape?



My Component Knowledge:

Lesson 1: I can understand that water is a material and ice is water in a different state and observe and record the changes to a block of ice.

Lesson 2: I can observe a block of ice, consider how to change its state and make predictions and devise an investigation to melt the ice quickly or slowly.

Lesson 3: I can talk and write about the best ways of observing and measuring how puddles change over time.

Lesson 4: I can begin to consider what makes a difference to how puddles dry up and the rate at which they do.

Lesson 5: I can investigate the role wax plays in waterproofing a material.

Lesson 6: I can begin to understand what happens when a material is heated up and why it changes shape.

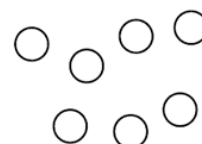
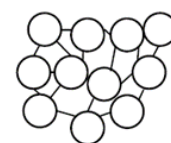
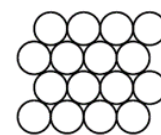
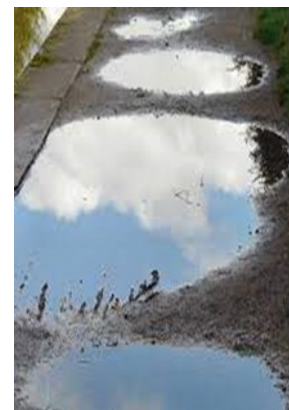
My Composite Knowledge:

I know there are different types of materials and these are used to make everyday objects. I can identify a range of everyday materials including wood, plastic, glass, rock, water and metal. I know the shape of some materials can be changed. I know water can be a solid and a liquid.

My Powerful Knowledge:

I can use my observations to identify materials and their uses in the world around me. I can investigate how I can innovate materials in different ways. I can select and apply key vocabulary in my written and verbal explanations.

How do puddles change over time?



What happens when some materials are heated up?