The Marvellous Materials Lab

Year 2 Knowledge Organiser

Holy Trinity C of E Primary School

1 SOLIDS

A solid keeps its own shape unless a force changes it.

Some solids can be squashed, bent, twisted or stretched.



wood block | metal spoon | plastic brick | play dough | elastic band

2 LIQUIDS

A liquid flows and takes the shape of its container.

Water, juice, milk and washing-up liquid are liquids.



water | milk | juice | washing-up liquid

3 MELTING AND FREEZING



solid chocolate

Heating: melting changes a solid into a liquid.



melted chocolate



liquid water

Cooling: freezing changes a liquid into a solid.



ice cubes

Water freezes at 0°C.

4 MIX IT UP!



Solid + solid: oats and dried fruit make muesli.



Liquid + liquid: cordial and water make squash.



Solid + liquid: flour and water make a paste.

5 DOES IT DISSOLVE?

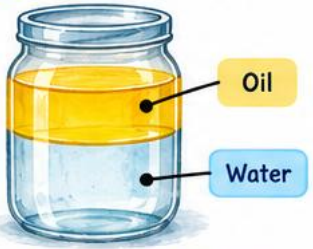


Salt dissolves in water to make a solution. It is still there, even when we cannot see it.



Sand does not dissolve in water.

6 WILL THEY MIX?



Oil and water do not mix. Oil floats on top of the water.



Explore colour, texture and pattern.

KEY VOCABULARY

Material: what something is made from.

Mixture: two or more substances mixed together.

Melt: change from solid to liquid by heating.

Freeze: change from liquid to solid by cooling.

Dissolve: mix into a liquid to form a solution.

Float: stay at the surface of a liquid.

Celsius (°C): the scale we use to measure temperature.

Can you predict, test, observe and explain what happens?

An adult must help with heating.