

Topic: Our world. **Science: States of matter - dissolving**

What should I already know?

The weather and the seasons

Simple properties of every day materials and how the shape can be changed

Scientific skills, knowledge and understanding

- Compare and group materials as solids, liquids, gases
- Some materials change state when they are heated or cooled
- Identify evaporation and condensation in the water cycle
- Water evaporates more quickly when it is warmer or windy
- What happens to solids in water

Working scientifically

- Make and test simple predictions
- Make careful observations
- To make some group decisions, listening to others and offering reasons for their opinion when Sorting materials
- Decide ways and give reasons for sorting
- To decide how to set up a simple fair test and recognise when it is not fair
- carry out a fair test,
- Collect data and record and present findings using simple scientific language
- Use their results to consider whether they met their predictions
- Draw a simple conclusion
- Write a simple explanation of why things happened

Vocabulary

Water cycle

Evaporation

Condensation

Dissolve

Suspension

Observation

Solids

Liquids

Gases

Change of state

Temperature

Permanent change

Temporary change

What I will know by the end of the unit

The different properties of solids, liquids and gases

Water can be in the form of a solid, liquid, or gas

Solids hold their shape, liquids form a pool not a pile, and gases expand to fill all the available space but can be easily compressed

The water cycle

The effects of water on the landscape

Weathering of rocks and soils, formation of caves

Solids can dissolve, float, sink, and form a suspension in water

How temperature and surface area affect evaporation linked to the water cycle