



Shadsworth Junior School



Curriculum

Year 4 Scheme of Work

Term: Spring 2

Topic: Science – States of Matter

Key Skills and Knowledge:

States of Matter

To compare and group materials together, according to whether they are solids, liquids or gases.

To know the properties of solids, liquids and gases.

To observe that some materials change state when they are heated or cooled and measure or research the temperature at which this happens in degrees Celsius

To explore how water changes state.

To identify and describe the different stages of the water cycle.

To identify the part played by evaporation and condensation in the water cycle.

To associate the rate of evaporation with temperature.

Working Scientifically

Ask relevant questions and using different types of scientific enquiries to answer them; make systematic and careful observations and, where appropriate, take accurate measurements using standard units.

To gather, record and present data in a variety of ways to help in answering questions; report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

Reading and Writing Opportunities (Long and Short Activities)

Creative Ideas and Hooks

To write a story from a raindrops point of view describing the water cycle.

To explore what happens to a puddle on the playground.

To produce a report about the different stages of the water cycle.

Make a model of the water cycle.

Evaporation Investigation.

Links to PSHCE, Equality and British Values Work

How to save water.

Looking after the environment

Promoting an eco-friendly school.

Working co-operatively during investigations

Key Vocabulary:

Solid, liquid, gas, evaporation, condensation, heating, cooling, water cycle, precipitation, collection, run off
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Resources Available / Visits/Visitors

States of Matter box in the Science cupboard
solid, liquids and gases picture cards
ice cubes
kettle
data logger

Water cycle song
Ice eggs investigation 'Ricky and Ruby'

Useful Websites:

BBC Bitesize website

Previous Knowledge

To identify and name a variety of everyday materials.
To describe physical properties of everyday materials.
To compare and group together everyday materials.