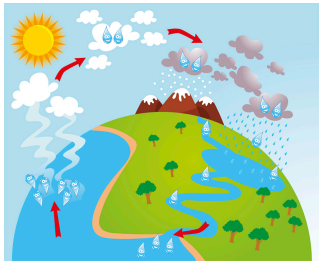
Water World



Literacy

The children will begin our topic by writing their own riddle to reveal out theme 'water.' The children will use personification within their clues eg *I can run, but I can't walk…* The children will consider the organisation of their clues so that the reveal is left until the end of their poem.

We will then focus our writing on explanation texts. The children will look at different texts to see how the ideas are organised on the page and to identify the different features that contribute towards meaning. The children will then begin to write their own texts to explain *'How Rainbows are Formed.'* We will think carefully about the purpose of each paragraph in our writing and the organisation of the ideas within them. The children will use a range of fronted adverbials to sequence their ideas. We will also experiment with using different causal conjunctions in our writing to explain the process.

The children will create and present their final text to explain the Water Cycle. They will use diagrams within their text to support their explanations.

Expressive Arts and Design

Art and Design

The children will research and develop their own design for a rain gauge.

They will communicate and develop their ideas through annotated sketches and cross-sectional exploded diagrams. The children will carefully consider which products to use, drawing on their knowledge of the functional properties of different materials.

Understanding the World

Science

The children will explore a variety of everyday materials and develop simple descriptions of the states of matter (solids hold their shape; liquids form a pool not a pile; gases escape from an unsealed container). We will observe water as a solid, a liquid and a gas and note the changes to water when it is heated or cooled as a change of state. We will research the temperature at which it changes state. We will research the temperature at which this happens in degrees Celsius (°C). The children will observe and record evaporation over a period of time to investigate the effect of temperature.

We will identify the part played by evaporation and condensation in the water cycle. The children will describe each step in the water cycle in their own words.

Enrichment

We will set up a working model of the water cycle in our classrooms and closely observe what happens at each stage.

The children will take part in swimming lessons at the Littledown centre.

We will be carrying out scientific investigations including making a cloud in a jar!

Understanding the World

Geography

The children will describe the water cycle, which is one of the key aspects of human geography. They will understand and use key vocabulary related to the water cycle e.g. precipitation, evaporation, condensation, accumulation…

The children will use fieldwork to measure, record and present physical features (rainfall) in our local area. Using their rain gauges, the children will explore the rainfall, over a period of a week. They will then use online tools to compare their data to a contrasting location (Australia).

Mathematics

We will be thinking about how far 1km is. The children will be set the challenge to find out how many lengths/widths of our playground they will need to walk to cover a 1km distance for our water challenge! We will convert the distance between different units of measurement (kilometres to meters)

The children will design and make their own rain gauges to measure the rainfall in England. They will use measuring jugs to work out the capacity of their rain gauge and to mark out a scale.

The children will use bar graphs to present the data that they have collected over a week.

Using online data, they will then compare their results to a different location (Australia) and solve comparison, sum and difference problems.

PSHE

We will consider what it would be like to live in a country where we would need to walk hours every day to collect water. How does this impact on their quality of life and their education?

In preparation for their swimming lessons, the children will consider the rules they will need to follow to stay safe at the swimming pool.

PE

The children will take part in swimming lessons at the Littledown Centre in which they will be challenged to swim at least 25m!

The children will complete the daily mile with a supply of water to help them imagine what it might be like to live in a country without accessible tap water.