



# Y6 Knowledge Organiser - Geography



## Declarative Knowledge:

The water cycle describes how water is exchanged (cycled) through Earth's land, ocean, and atmosphere. Water always exists in all three places, and in many forms—as lakes and rivers, glaciers and ice sheets, oceans and seas, underground aquifers, and vapour in the air and cloud.

Falling or flowing water from a big river has a lot of energy. We can harness this by forcing the water through a pipe called a penstock. As the water flows through the pipe, it turns the blades of a turbine, which spins an electric generator. As long as the water is flowing, the generator will be able to provide electricity.

Water supply and sanitation in Zimbabwe is defined by many small-scale successful programs but also by a general lack of improved water and sanitation systems for the majority of Zimbabwe. According to the World Health Organization in 2012, 80% of Zimbabweans had access to improved, i.e. clean, drinking-water sources, and only 40% of Zimbabweans had access to improved sanitation facilities. Access to improved water supply and sanitation is distinctly less in rural areas.

## Maps



## Key Vocabulary:

**Continent**- any of the world's main continuous expanses of land (Europe, Asia, Africa, North and South America, Australia, Antarctica).

**Location**- a particular place or position.

**Equator**- a line notionally drawn on the earth equidistant from the poles, dividing the earth into northern and southern hemispheres and constituting the parallel of latitude 0°.

**Statistics**-the practice or science of collecting and analysing numerical data in large quantities, especially for inferring proportions in a whole from those in a representative sample.

**Zimbabwe**- is a landlocked country located in southern Africa, between the Zambezi and Limpopo Rivers, bordered by South Africa, Botswana, Zambia and Mozambique.

**Country**- a nation with its own government, occupying a particular territory.

**System**- a set of things working together as parts of a mechanism or an interconnecting network; a complex whole

**Process**- a series of actions or steps taken in order to achieve a particular end.

**Precipitation**-the action or process of precipitating a substance from a solution.



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Will you ever see the water you drink again?

### English

As readers we will be reading and exploring the book *Kensuke's Kingdom* by Michael Morpurgo. We will be deepening our inference skills and also developing our summative and explanation skills whilst reading the book, which is linked to our enquiry question.

As writers we will be widening our spelling, grammar and punctuation skills by producing a wide range of writing including: narratives, Autobiography, poetry and a mixture of formal and non-formal writing.

### Maths

As mathematicians, we will be exploring place value in great depth. We will be learning to understand and compare numbers up to 10 million. We will explore place value in-depth through using concrete, pictorial and abstract representations.

We will also be looking at the four operations (addition, subtraction, multiplication and division) and applying this to the formal method. Children will be learning use their prior knowledge of place value to develop our problem solving and reasoning skills. Children will also be learning about prime number, factors and multiples.

### Science

As Scientists, we will be exploring the questions  
Can they recognise that light appears to travel in straight lines?

Can they use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye?

Can they explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes?

Can they use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them?

We will be working scientifically by conducting light investigations, making predictions, analysing results and interpreting results on a graph