

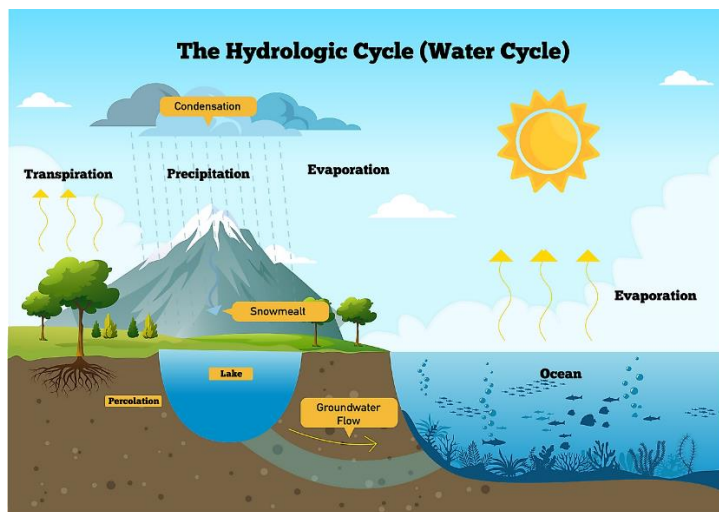


St James' Church of England Primary School

Geography Overview Sheet



Year 4 – Water Cycle



Rationale: This unit on Water will introduce children to the water cycle and allows them to explore the processes of evaporation and condensation through a range of practical activities. By considering water as a finite resource, they are introduced to the ideas of condensation and consider some of the issues surround supplying clean drinking water to a growing global population.

Pre-unit task: What do we know? KWL Grid/task

Attention Grabber:

Learning Objectives:

- To describe and understand key aspects of the water cycle in the context of learning about the changing states of matter
- To describe and understand key aspects of the water cycle in the context of explaining the water cycle
- To describe and understand key aspects of the water cycle in the context of learning about clouds and rain
- To describe and understand key aspects of the water cycle in the context of learning about the water treating process
- To describe and understand key aspects of the water cycle in the context of learning about flooding
- To describe and understand key aspects of the water cycle in the context of learning about water pollution

Overview:

Lesson 1: Can I explain the three states of matter?
Lesson 2: Can I explain the key aspects of the water cycle?
Lesson 3: Can I explain how clouds and rain are formed?
Lesson 4: Can I explain how and why drinking water is cleaned?
Lesson 5: Can I explain the causes and effects of flooding?
Lesson 6: Can I understand the causes and effects of water pollution?

Cross Curricular Links

English- Information leaflet
DT- Ice cream making
IT – Computer diagram

Resources

Atlases, Digi Maps, OS Maps, images of area, iPads, non-fiction books, thermometers

Impact/Assessment

Most Children will: • Use the terms freezing, evaporation, condensation to describe how water changes • Recall the temperatures at which water freezes and boils • Explain why the water cycle is a closed cycle • Explain why the water cycle is a closed cycle • Name some different types of clouds • Explain that dirty water contains bacteria • Describe ways to limit flood damage

Less Able Children will: • Describe water in its solid, liquid and gaseous state • List the main events in the water cycle • Explain that changes in temperature cause evaporation and condensation • Explain that water has to be cleaned for drinking • List different types of flooding • Describe how flooding affects communities

More Able Children will: • Explain how to change a solid into a liquid • Describe how to turn a liquid into a gas • Explain where the processes of evaporation and condensation are involved in the water cycle • Explain that the water cycle keeps going • Use the words condensation and precipitation to explain why it rains • Use the words evaporation and condensation to explain why clouds form • Explain some of the steps involved in cleaning water • Suggest ways to remove dirt from water • Explain what causes flooding