DRIVING QUESTION:**Does water always win?**

Many of us take water for granted. In the UK, we can turn a tap and clean water flows from it instantly. But have you ever stopped to consider what it is exactly? Where it comes from? And just how important is it? In this theme students will be encouraged to consider many of the processes on Earth in which water is involved. They will examine water in its role as:

* A chemical that is recycled and supports life
* A physical force that shapes landscapes and impacts life
* A source of comfort and aid
* A link between all aspects of the natural world

Life would not exist without water.  But there are many instances where human activities can affect the quality of water. Students will examine the causes and effects of pollution on the quality of water and the impact that this has on ecosystems. They will question which has the most power – water, or the life that it supports – by considering the driving question: **Does water always win?**

**Water theme knowledge and skills:**

* Describe the different parts of the water cycle
* Explain the importance of water
* Deliver a presentation on the water cycle
* Use appropriate scientific terminology – solvent, solute, solution ​
* Describe how temperature and other factors affect a substance’s solubility ​
* Explain what a saturated solution is using the particle model ​
* Describe how different materials dissolve ​
* Describe the difference between salt and sugar (ionic and covalent bonds)
* Identify and describe the key poetic devices present in Imtiaz Dharker’s poem
* Explain the importance of water for the community of Dharavi
* Analyse how poetic devices have been used to describe the importance of water
* Identify cause and effect relationships relating to physical geography (Rivers)
* Describe the journey of a river
* Explain a process of cause and effect
* Explain what happens at a Baptism​
* Teach a group of peers about the symbolism of Baptism​
* Evaluate the importance of Baptism as a religious ceremony
* Discover the features of charity adverts and persuasive speech
* Describe the characteristics of a glacier
* Explain how geographical factors cause a glacier to “advance” and “retreat”​
* Evaluate how the climate and human behaviour affects the growth and stability of a glacial environment
* Explain the importance of coral reefs as a habitat
* Investigate the environmental problems facing coral reefs and how we can protect them
* Compare and contrast 2 coral reefs considering the specific environmental problems they face
* Identify rivers and coral reefs from pictures and words
* Explain why coral reefs and rivers are home to different species
* Discuss the preservation needs of coral reefs and rivers
* Describe what water pollution is​
* Identify the causes of water pollution
* Examine the effects of water pollution on human and animal life
* Identify the main causes of a tsunami
* Describe the impact of the Japanese Tsunami 2011
* Identify key information to support people and areas affected by a tsunami
* Identify the features of report writing​
* Explore the human impact on oceans​
* Apply the features of report writing to a report on how humans are affecting our oceans
* Understand meteorology (weather forecasting) and how to read weather forecasts, with the ability to turn a written forecast into a forecast to be presented to an audience