P5 Water

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| **Research** | **Observe** | **Investigate** | **Experiment** | **Present** |
| What are the boiling and freezing points of water?At what temperature does ice begin to melt?The polar ice caps are melting:* why is this a problem for countries across the world?
* what is causing this to happen?
* What can be done to slow this down?
 | Arrange some skittles sweets on a plate in a circle pattern. Add some warm water and see what happens!<https://www.kidspot.com.au/things-to-do/activity-articles/rainbow-skittles-science-experiment/news-story/e8dd4d5450c8fee379583df7f58d6767> | How much water do you use to shower?Make a prediction of how many litres of water you think you use. Put a measuring jug under your shower and time the shower running for 1 minute. How much water is in your jug? Multiply this by the amount of minutes you spend in the shower to find out how much you use.  | Design and make a boat which floats and stays upright – try adding small objects to your boat to see if it continues to float or sinks. | Draw a diagram of the water cycle and label it with the scientific terms. |
| Write a definition for each of these terms:* Precipitation
* Evaporation
* Surface run-off
* Groundwater flow
* Condensation
* Transpiration
 | Observe how much water is used in your home over one full day. Keep a diary of every time water is used. Does it surprise you?Was it more or less than you expected? | How can we clean dirty water? Complete an investigation with help from Brian cox: <https://www.stem.org.uk/resources/elibrary/resource/315596/how-can-we-clean-our-dirty-water> | Add some salt to a glass of water and stir. What happens?Can you think of a way of separating them again?  | Create a poster with 5 rules to stop water being wasted. |
| In class we found out that only 1% of the planet’s water is fresh, drinking water. Why can’t we drink salt water? What would happen to us if we drank salt water?In many places around the Earth, people struggle to find clean water to drink – find out more about this issue and how we can help. <https://www.youtube.com/watch?v=teX2l_E40mw> | Leave a dish each of lemon juice, vinegar, salty water and plain tap water on a windowsill. Mark the level each day to see how much has evaporated – which evaporates quickest? Why do you think this is? |  | Some interesting experiments to watch or try at home – make sure you have an adult’s permission and they are helping you.<https://www.youtube.com/watch?v=9EUfVIon6t8><https://www.youtube.com/watch?v=zVAL5I-WtAQ><https://www.youtube.com/watch?v=kEHdyiBMgAg> | Write a letter to Nicola Sturgeon explaining the problems many people have with accessing clean water and persuading her to help.  |