

Topic	Objectives	Lesson starter	Activities	Challenge/Project
<p>Session 1</p> <p>Water in the world.</p> <p>The Water Cycle.</p>	<p>To know that water on earth exists as saltwater and fresh water.</p> <p>To understand key features of the Water Cycle.</p> <p>To be able to list different of forms of fresh water.</p>	<p>Power point: Explaining earth's water distribution.</p>	<p>Video: Water cycle video.</p> <p>Activity sheet: Water cycle diagram and labels.</p> <p>Video/ Investigation: Water cycle experiment.</p>	<p>Activity sheet/Investigation: Make a rain gauge and measure the rainfall over the next 3 weeks. (Also needed for session 4)</p> <p>Activity sheet/ Art: Grow your rainbow.</p> <p>Literacy/Music: Write your own rap to explain the water cycle and perform for your family.</p>
<p>Session 2</p> <p>How do we clean the water? (Water treatment process) and Anglian Water's role in it.</p>	<p>To understand that water needs to be cleaned before drinking it.</p> <p>To have an understanding of the cleaning process.</p> <p>To understand water quality is very important, regularly tested and high quality in our taps.</p> <p>To be able to carry out a simple filtration process.</p>	<p>Online video: Water process.</p>	<p>Video: Water treatment process.</p> <p>Activity sheet: Water treatment process label diagram.</p> <p>Activity sheet/ Investigation: Filtration activity.</p> <p>Video/ Investigation: Look, smell, taste test - can your grownups spot the tap water?</p>	<p>Art/design: Design a poster/advertising campaign to highlight the high quality of tap water.</p> <p>Research: Investigate the WaterAid website. What is the process for cleaning water in other countries?</p>

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<p>Session 3</p> <p>Water use in your house.</p> <p>Measuring the water, you use. (water audit)</p> <p>Finding water meter data.</p>	<p>To understand that water is vital to life and is used for more than just drinking.</p>	<p>Online video: How to find your water meter?</p>	<p>Investigation: Adult help needed - Get your grown-up to read your water meter - record the number and see how much you use each week.</p> <p>Activity sheet: Identify all the places where water is used in your home (shower, washing machine, toilets etc.).</p> <p>Activity sheet: Create water diary audit to record water used (minutes in shower, number of times taps turned on etc.). Continue diary for 3 weeks</p> <p>IT/Investigation: Create a spread sheet to record weekly:</p> <ol style="list-style-type: none"> 1. Water diary audit data 2. Water meter data 	<p>Research: Investigate your water footprint. What is hidden water?</p> <p>Make a quiz for your family about Hidden Water - how much water is used to make a car? Jeans? A loaf of bread?</p>

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<p>Session 4</p> <p>Being waterwise</p>	<p>To know a range of ways to reduce water consumption.</p> <p>To understand there are real pressures on the amount of clean water available to use.</p>	<p>Video: Waterwise - Why we need to become water wise.</p>	<p>Research: What climate or water challenges are there in the Anglian Water region?</p> <p>Review: Make a graph of the rainfall data for your garden that you have collected over the past few weeks or research rainfall for past 6 months.</p> <p>Video: Waterwise.</p> <p>Investigation/art: Design a water saving device. Use junk to make a model.</p> <p>Online APP/audit: Check your water meter and play the App or update your data graph.</p>	<p>Presentation: Create a pitch for your water saving device, like on Dragons Den and present to your family.</p> <p>Online APP: Test Water App - Water Battle with your family. Be a reviewer for us.</p> <p>IT/Investigation: If you can't use the APP use Excel or create own data graphs to record your audit and water meter data.</p>

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<p>Session 5</p> <p>Too much water.</p>	<p>Understand that weather patterns can fluctuate.</p> <p>Know the issues caused by too much rain.</p>	<p>Images of flooding/ videos.</p>	<p>Research: How houses are designed to be protected from flooding in other parts of the world.</p> <p>Design: A house or town that can adapt to flooding. A house on stilts/ one that floats? What is it made from?</p> <p>Annotated diagram</p> <p>On-going Investigations: Don't forget to check your water meter / audit and record your data.</p>	<p>DT: Build a model of your house from junk.</p>
<p>Session 6</p>	<p>To assess and review your use of water.</p>	<p>On line video: Doing our Bit.</p> <p>The Water App</p>	<p>Video: Doing our bit.</p> <p>Review: Has playing the App and learning about water made you more water wise? - compare your water use with lesson 3. Create a cartoon/story board showing how your family use water/have changed their water use</p> <p>Review Do you like the App? Etc. Write a review. Design a poster to advertise the APP.</p> <p>Review: Graph of your water use and/or water meter data. Share your findings with your family.</p>	<p>Online APP: If you have played the Water App with your family write a review for us.</p> <p>Art/DT: Create a water wise information guide (PowerPoint/ Poster/ funky facts - you decide).</p>

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<p>Session 7</p> <p>What happens to the stuff you flush away?</p>	<p>To know that the treatment of sewage, before it goes back to the water cycle, is a natural process using, settlement, micro-organisms and heat.</p> <p>To be able to name parts of the sewage treatment process.</p> <p>To discover micro-organisms using video, name and draw them.</p>	<p>Video: Water recycling process on Education video.</p>	<p>Activity sheet: Labelling WR process/ or draw own diagram and label.</p> <p>Video: Microbes and what they do for us.</p> <p>Activity sheet: Naming microbes.</p> <p>On-going Investigations: Don't forget to continue recording rainfall.</p>	<p>Art/ DT: Make your own microbe - make sure it is detailed. Junk modelling/ etc.</p>
<p>Session 8</p> <p>You put what down the toilet?</p>	<p>Understand that different materials have different properties.</p>	<p>Lotte's vlog video.</p>	<p>Investigation: What happens to wipes, toilet paper, kitchen paper towel and newspaper when you put them in water?</p> <p>Activity sheets: Find out all about how to keep the sewers free from blockages.</p> <p>On-going Investigations: Don't forget to continue recording rainfall.</p>	<p>Literacy: Create a leaflet to share Keep It clear messages with your family. (select your audience).</p>

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<p>Session 9</p> <p>Water for wildlife. In the garden and the environment</p>	<p>To know the role Anglian water plays in protecting the environment.</p> <p>To know that all living things need water.</p> <p>To understand key features a water animals life cycle.</p> <p>To be able to list different freshwater creatures.</p>	<p>Online research: Anglian water Biodiversity https://www.anglianwater.co.uk/in-the-community/protecting-our-environment/our-biodiversity-work/</p>	<p>Video: Virtual Pond Dipping.</p> <p>Activity sheet: Pond animal ID sheet and Pond Health Score.</p> <p>Video/ Investigation: Animal Life cycle.</p> <p>Activity sheet: Dragonfly life cycle/Frog Life cycle.</p> <p>On-going Investigations: Don't forget to continue recording rainfall.</p>	<p>On-going Investigations: Make a graph of the rainfall data for your garden that you have collected over the past few weeks.</p> <p>Activity sheet: Watering plants. Make a drip feeder for plants using milk containers.</p> <p>Investigation: Plant 2 seeds. Water one regularly and not the other one and compare.</p>
<p>Session 10</p> <p>Water for Wildlife.</p> <p>Birds.</p>	<p>To understand that birds use our water sources for their habitat.</p> <p>To have an understanding what birds use these areas and how.</p> <p>To be able to identify some different birds from your home and garden as well as our reservoirs.</p> <p>To be able to observe and draw a bird.</p>	<p>Online video: Our Reservoirs.</p>	<p>Video: Virtual Birdwatching.</p> <p>Activity sheet: Identify the birds you have seen.</p> <p>Investigation: What birds do you see in your area?</p>	<p>Art: Draw a bird that you see.</p> <p>Research: Watch the osprey webcam.</p> <p>DT Activity sheet: Make a bird bath. Make a bird feeder.</p>

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<p>Session 11</p> <p>Water for Wildlife.</p> <p>It's a Bugs Life.</p>	<p>To understand that water is vital to life and is used for more than just drinking.</p>	<p>Online Video: Virtual Bug Hunt.</p>	<p>Activity sheet: Bug hunt ID sheet and classification into herbivore, carnivore, detritivore.</p> <p>Video/ Investigation: Animal Life cycle.</p> <p>Activity sheet: Butterfly life cycle/Ladybird Life cycle.</p> <p>IT/Investigation: Graph of rainfall over the last few weeks using your collected data.</p>	<p>Art: Draw a bug that you see.</p> <p>Research: Find out about the Big Butterfly Count.</p> <p>Investigation/Design: Design and build a bug hotel and record minibeasts. Investigate how each of the minibeasts in your hotel need water?</p> <p>Observe woodlice</p>
<p>Session 12</p> <p>What I know...</p>		<p>List all the things you can remember learning about/ the things that made you go wow or Um.</p>	<p>Design and make a board game that shows all you have learnt.</p>	<p>Play with everyone in your house.</p>