

## Freeze It!

### Year 2 Learning Journey

Start Date:	Sunday 29 October	Unit Length:	7 weeks
	<p><b>Links to Host Country (Qatar)</b></p> <ul style="list-style-type: none"> <li>We will find out why there is not snow in Qatar.</li> <li>Find out about Qatar's Snow Dunes.</li> </ul>	<p>During this unit our students will be:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #8B4513; color: white; padding: 5px 10px; border-radius: 10px;">Thinkers</div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #32CD32; color: white; padding: 5px 10px; border-radius: 10px;">Respectful</div> </div>	
<p><b>Freeze It!</b></p> <p>We are going to be looking at water and ice from different viewpoints. As scientists we will investigate water and what happens if we cool it. Do you know that water is sometimes solid and sometimes a liquid? We will be geographers and explore cold and icy places around the world. Have you been to any cold and icy places? What makes them so cold... and what happens if they warm up?</p>			
<p><b>Entry Point</b></p> <p>Children will take part in a 'Molecules Roleplay'. They will investigate the structure of solids, liquids, and gases. They will create roleplays to demonstrate these structures.</p>			
<p><b>Knowledge Harvest</b></p> <p>The children will be investigating ice and water. They will be given a bowl of ice and a tray of water and asked to describe the similarities and differences between them. The findings of the experiment can be presented using ChatterPix Kids.</p>			
<p><b>Science</b></p> <ul style="list-style-type: none"> <li>We will find out at what temperature water freezes.</li> <li>We will find out at what temperature ice melts.</li> <li>Children will plan and carry out an investigation to see if all liquids freeze.</li> <li>We will make our own ice lollies using fresh fruit juice and ice lolly moulds.</li> <li>We will make ice cream using the 'ice cream in a bag' method.</li> <li>We will conduct an experiment to find out which materials keep ice the coolest.</li> </ul>			
<p><b>Design, Technology and Innovation</b></p> <ul style="list-style-type: none"> <li>Children will design and make a cool box to keep ice lollies cold. This will be based on the experiment that we conducted in Science.</li> </ul>			
<p><b>Geography</b></p> <ul style="list-style-type: none"> <li>We will look at maps to find out which countries have snow and ice.</li> <li>We will investigate maps at different times in the year to see if the locations of snow and ice change.</li> <li>Children will find out how living in countries with snow and ice impacts life.</li> </ul>			
<p><b>International</b></p> <ul style="list-style-type: none"> <li>We will find out about global warming and how this impacts different wildlife.</li> <li>We will research the 'See, Think, Wonder' project to find out what we can do to help prevent global warming.</li> <li>Children will create a simulation of melting ice caps.</li> </ul>			
<p><b>Health and Wellbeing</b></p> <ul style="list-style-type: none"> <li>We will find out about how to stay safe in snowy and icy conditions.</li> <li>Children will create videos using the Do Ink green screen app to explain how to stay safe.</li> </ul>			

**Exit Point**

The children will create presentations to share their learning from the 'Freeze It!' unit. These will be shared with parents as a part of their showcase.

**Assessment**

Science 1.12 Be able to describe the method and results.			
Mastering	Secure	Developing	Emerging
I can: <ul style="list-style-type: none"> <li>• Use the correct language when writing instructions for an experiment.</li> <li>• Talk about the results and how explain a better way to record and present them.</li> </ul>	I can: <ul style="list-style-type: none"> <li>• Use pictures to talk about each step in our investigation.</li> <li>• Talk or write about the results that we have.</li> <li>• Record our results in a given format.</li> <li>• Choose how we could record our results.</li> <li>• Talk or white about how we did our investigation and what we found out.</li> </ul>	I can: <ul style="list-style-type: none"> <li>• Use a picture to help explain how we did our investigation.</li> <li>• Talk through all the steps, in the right order, that we took in our investigation.</li> <li>• Talk about how we collected our information and the order we did this.</li> <li>• Share results to help a class investigation.</li> </ul>	I can: <ul style="list-style-type: none"> <li>• Talk through some of the things that we did.</li> <li>• Talk through the steps that we took in our investigation.</li> </ul>