

## Shake It

### Year 4 Learning Journey

Start Date:	Sunday 10 September	Unit Length:	5 weeks
	<p><b>Links to Host Country (Qatar)</b></p> <ul style="list-style-type: none"> <li>• Research all about Qatar's dairy products.</li> <li>• Create a project about Baladna Farm.</li> </ul>	<p>During this unit our students will be:</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: red; color: white; padding: 5px; margin: 5px;">Collaborators</div> <div style="background-color: brown; color: white; padding: 5px; margin: 5px;">Thinkers</div> </div>	
<p><b>Shake It</b> We will be learning about solids, liquids and gases and how things can change state. We will need to be scientists to investigate the chemistry of some cooking and preparation processes. We will use our knowledge to make butter, cheese, and milkshakes. What has cooking got to do with science? Do you have any idea of how to make butter?</p>			
<p><b>Entry Point</b> Children will make observations on different kinds of milk- fresh, UHT, soy, semi-skimmed, oat, etc. What are the similarities and differences?</p>			
<p><b>Knowledge Harvest</b> Children will work in groups to create a performance showing the molecules in a solid, a liquid and a gas.</p>			
<p><b>Science</b></p> <ul style="list-style-type: none"> <li>• We will investigate the nutritional value of different kinds of milk.</li> <li>• Students will then investigate how butter and cream are made.</li> <li>• During science lessons, we will observe butter in its different states.</li> <li>• Students will follow a recipe to make their own ice-cream.</li> <li>• We will then investigate what substances will dissolve in milk.</li> </ul>			
<p><b>International</b></p> <ul style="list-style-type: none"> <li>• Students will research why people might not want to or cannot drink cow's milk.</li> <li>• We will then investigate the environmental issues connected with cow's milk.</li> </ul>			
<p><b>Design, Technology and Innovation</b></p> <ul style="list-style-type: none"> <li>• Children will design their own packaging for their very own milkshake.</li> </ul>			
<p><b>Health and Wellbeing</b></p> <ul style="list-style-type: none"> <li>• Students will investigate the reasons why milk is an important part of most people's diet.</li> </ul>			
<p><b>Exit Point</b> We will make our own milkshakes to enjoy with our peers.</p>			