

WHISTLESTOP SCIENCE WEEK

OCEANS

A ready-to-go mini science week based on **oceans**

	ACTIVITY	DETAILS AND LINKS TO RESOURCES
MONDAY	Investigate how the shape of a boat affects the cargo it can hold.	PSTT's Starters for Science Video 16. <u>Floating Boats</u> www.pstt.org.uk/resources/curriculum-materials/Starters-for-Science
TUESDAY	Question of the week: Which ocean is?	Set the question – Ask the children to find out which of Earth's oceans or seas: is the most polluted; is the saltiest; has the greatest number of different animals; has the biggest waves and ask the children to add their own ideas to the list.
WEDNESDAY	Challenge of the week: Make the water cycle in a bag	Set the challenge – Put a small amount of water into a clear plastic bag. Seal the top and sticky tape the bag to a sunny window. Watch for droplets of condensed water to appear near the top of the bag. Use a permanent marker on the outside of the bag to draw where evaporation and condensation is happening.
THURSDAY	Find out more about life in the oceans	Explorify at Home – <u>Habitats: video of marine life</u> www.explorify.wellcome.ac.uk/blog/explorify-at-home-habitats
FRIDAY	Explore what floats and what sinks	PSTT's Science Fun at Home 4. <u>Sink or Swim</u> www.pstt.org.uk/resources/curriculum-materials/Science-Fun-at-Home

WHAT TO DO

- * Choose your activities - for the week, for a day, or for anything in-between
- * Add or swap in any extra activities from the list overleaf
- * Download the resources and share with teachers, children and families

Encourage the children to share what they have been doing and finding out

draw pictures, take photos, make voice recordings, film videos, create a scrap book, keep a diary, make a model, phone a friend or relative

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ADDITIONAL OR ALTERNATIVE ACTIVITIES

PSTT	<p><u>Science and STEM Clubs</u> Earth Explorers – Exploring the oceans Engineering Our World – Isambard kingdom Brunel – boat making Challenge Chasers – Clean me! and Escape! www.pstt.org.uk/resources/curriculum-materials/childrens-university-stem-clubs</p> <p>I bet you didn't know article: How to calculate the <u>the age of a shark</u> www.pstt.org.uk/resources/curriculum-materials/cutting-edge-science-primary-schools</p>
PSTT/WOW Science	<p><u>Building a model boat</u> - what do you need to do to make it float? www.wowscience.co.uk/row-row-row-your-boat/</p>
BBC Bitesize	<p><u>What is buoyancy?</u> www.bbc.co.uk/bitesize/topics/zc89k7h/articles/zytqj6f</p>
PSTT/SSERC	<p>PSTT/SSERC <u>investigations based on the Titanic – Make a paddle boat</u> www.youtube.com/watch?v=ECJvF_c8gVI&feature=youtu.be <u>Launch, change and fix your boat</u> with more paddle boat videos www.pstt.org.uk/resources/curriculum-materials/Titanic-Investigations</p>
STEM Learning	<p>Find out more about <u>salty seas</u> using the 'Oceans' resources www.stem.org.uk/resources/elibrary/resource/417184/salty-seas</p>
Institute of Physics	<p>Make a <u>ketchup sachet diver</u> and watch it dive and surface www.spark.iop.org/cartesian-ketchup-sachet-diver#gref</p>

What science conversations will happen during your Whistlestop Science Week?
 Why not share them @pstt_whyhow or at the Great Science Share for Schools?

IMPORTANT NOTICE: The Primary Science Teaching Trust is not liable for the actions or activity of any person who uses the information in this resource. The Primary Science Teaching Trust assumes no liability with regard to injuries or damage to property that may occur as a result of using the information and carrying out the practical activities contained in this resource or in any of the suggested further resources. These activities are designed to be carried out by children working with a parent, guardian, teacher or other appropriate adult. The adult involved is fully responsible for ensuring that the activities are carried out safely.