

# WHISTLESTOP SCIENCE WEEK



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

	ACTIVITY	DETAILS AND LINKS TO RESOURCES
MONDAY	<b>Explore</b> making your own musical instruments and changing the pitch	PSTT's Starters for Science Video 15. <b><u>Making Music</u></b> <a href="http://www.pstt.org.uk/resources/curriculum-materials/Starters-for-Science">www.pstt.org.uk/resources/curriculum-materials/Starters-for-Science</a>
TUESDAY	<b>Question</b> of the week: Does sound travel better through solids, liquids or gases?	Set the question – How can we find out if sound travels better through air or through solids.? To get the children thinking, start with this activity from the Institute of Physics: <b><u>Musical Coat Hanger</u></b> <a href="http://www.spark.iop.org/musical-coat-hanger#gref">www.spark.iop.org/musical-coat-hanger#gref</a>
WEDNESDAY	<b>Challenge</b> of the week: Can you play a tune on a home-made instrument?	Set the challenge – Make an instrument with rubber bands, a cardboard box with an open side and sticky tape. Challenge the children to 'tune' the bands by tightening them so they are different pitches when plucked. Can they play a tune someone else will recognise?
THURSDAY	<b>Discover</b> more about the ear and how we hear, and find out how to make a bottle orchestra.	Explorify at Home: <b><u>Sound</u></b> <a href="http://www.explorify.wellcome.ac.uk/blog/explorify-at-home-sound">www.explorify.wellcome.ac.uk/blog/explorify-at-home-sound</a>
FRIDAY	<b>Make</b> a drum or a wind chime to find out about vibration and sound	PSTT's Science Fun at Home 7. <b><u>Musical Science</u></b> <a href="http://www.pstt.org.uk/resources/curriculum-materials/Science-Fun-at-Home">www.pstt.org.uk/resources/curriculum-materials/Science-Fun-at-Home</a>

## 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 for One: 7. Coat-hanger</u> - Investigate more about sound travelling through solids and through air  <a href="http://www.pstt.org.uk/resources/curriculum-materials/Science-for-One">www.pstt.org.uk/resources/curriculum-materials/Science-for-One</a></p> <p>I bet you didn't know article: <u>Whale song is changing</u> - <u>Why the pitch of whale song is decreasing</u>  <a href="http://www.pstt.org.uk/resources/curriculum-materials/cutting-edge-science-primary-schools">www.pstt.org.uk/resources/curriculum-materials/cutting-edge-science-primary-schools</a></p>
PSTT/WOW Science	<p>Explore making music with <u>Chrome Music Lab</u>  <a href="http://www.wowscience.co.uk/new-resources-chrome-music-lab/">www.wowscience.co.uk/new-resources-chrome-music-lab/</a></p>
BBC Bitesize	<p><u>Let's explore sound</u> Find out more about pitch, volume and hearing with these activities and quiz  <a href="http://www.bbc.co.uk/bitesize/articles/zmjmwmb">www.bbc.co.uk/bitesize/articles/zmjmwmb</a></p>
Institute of Physics	<p>Do try this at home: Episode 1. <u>Rubber Band Bass Guitar</u>  <a href="http://www.iop.org/explore-physics/at-home/episode-1-rubber-band-bass-guitar">www.iop.org/explore-physics/at-home/episode-1-rubber-band-bass-guitar</a></p>
SEERIH, University of Manchester	<p>Enquiring Science 4 All – Fair testing Y4  <u>How does distance from the source affect the volume of sound?</u>  <a href="http://www.seerih-innovations.org/enquiringscience4all/enquiries/comparative-fair-testing">www.seerih-innovations.org/enquiringscience4all/enquiries/comparative-fair-testing</a></p>
Science Sparks	<p><u>How are sounds made</u> – 'See' sound vibrations in action  <a href="http://www.science-sparks.com/how-can-you-see-sound/">www.science-sparks.com/how-can-you-see-sound/</a></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.

