Year 4 Sound Science Discussion Starter -Follow-On Activities

- Children might think that sound waves travel in straight lines, like light waves. You could ask one child to stand in the middle of the room and make a sound. The rest of the class raise their hands when they hear the sound. This demonstrates that sound travels in all directions.
- Children may think that sound cannot travel through solids or liquids. You could address this by talking through the classroom door and asking if the children could hear you. If you're feeling brave, you could talk into a bowl of water to demonstrate that sound also travels through water. You could ask them to think about a time when they have gone swimming and made sounds while they were underwater.
- Using xylophones or chime bars is a great way to demonstrate the pitch and volume of sounds.
- Visit this page for more lovely ideas:





Answers - How Do We Hear.

Asking scientific questions is a great way for you to explore a new topic.

Although not all of your questions will be answered at this point, these facts may help you to understand how **sound** works.





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How Do We Hear?



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How Do We Hear?





Year 4 Sound Science Discussion Starter -Teacher Guidance

This science discussion starter pack is designed to encourage children's scientific thinking. Included are two sizes of the discussion starter, a PowerPoint version and a follow-on sheet, giving you more flexibility in the classroom.

Before showing the discussion points, you could ask the question to your class for them to share initial ideas. The starter page with the children's answers could then be displayed for the whole class to see and discuss as a class. Alternatively, children could work in smaller groups to discuss the points.

Points for children to consider include which children they agree with and why. They should explain if there are any statements that they disagree with and whether there are some they partially agree with.

It is important that while using this resource, any common misconceptions that children have are addressed during the topic. Common misconceptions may include:

- · confusing volume and pitch;
- that an event in the distance can be seen and heard at the same time;
- that in order to change the pitch, an object should be hit harder.