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P12 4 More about waves

Key Questions

1. What are sound waves?
2. How can we can investigate waves?

Worksheet Grade

Current	⇒	Target
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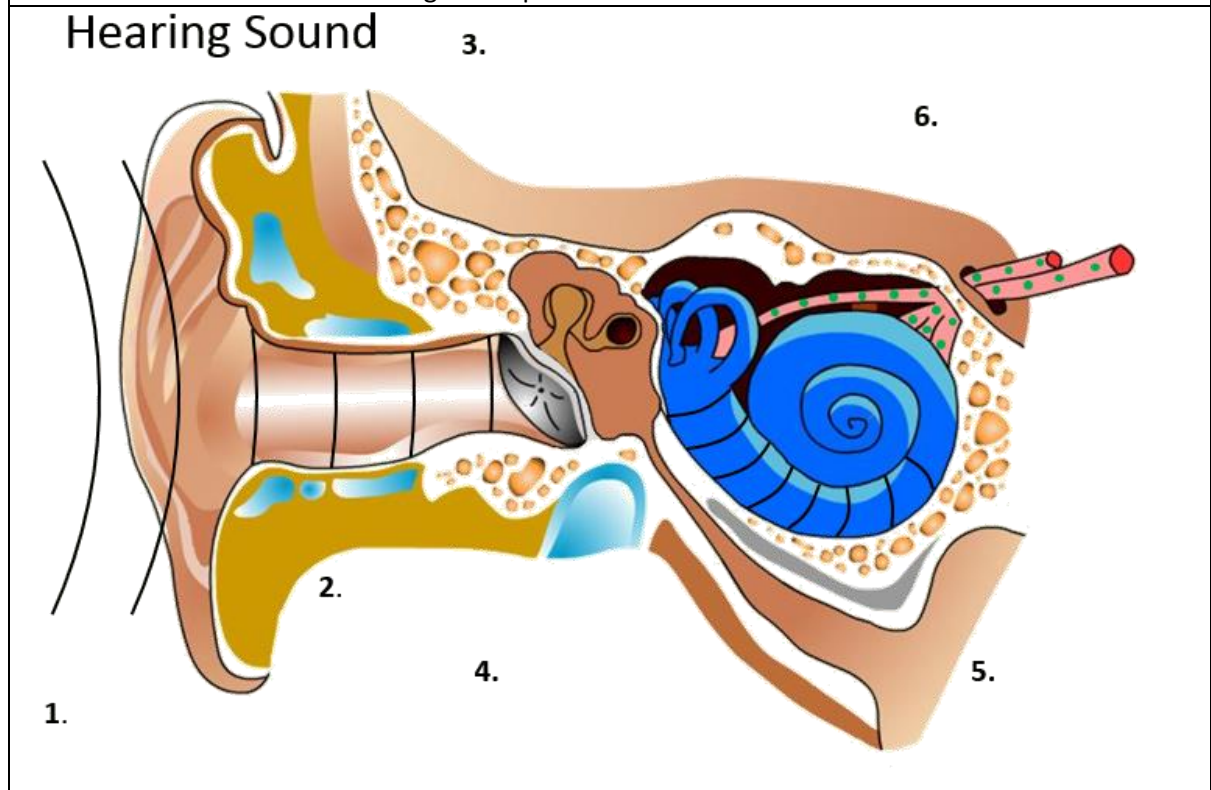
Lesson Objective

To be able to identify sound waves and know how to investigate them waves.

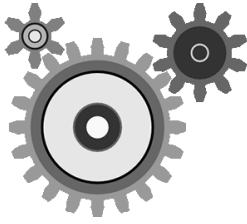
Route to Learning

	Level	Achieved
State that sound waves require a medium to travel in.	4	
Describe how sound waves travel more quickly in solid than they do in gases.	5	
Calculate the speed of waves using the wave speed equation.	6	
Evaluate the suitability of apparatus for measuring the frequency, wavelength, and speed of waves	7	
Explain why the wavelength of a wave in a particular medium changes as the frequency changes.	8	

Describe how sound travels through each part 1-6.



What is a mechanical wave?



How are sound waves produced and how do we hear them?

What is the speed formula?

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How does sound travel through solids?

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What is the difference in the speed of sound between solids and gases?
Why is this?

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What is an echo?

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Why can't sound travel through a vacuum?

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Name 2 ways in which the speed of sound can be investigated (solids and liquids)

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