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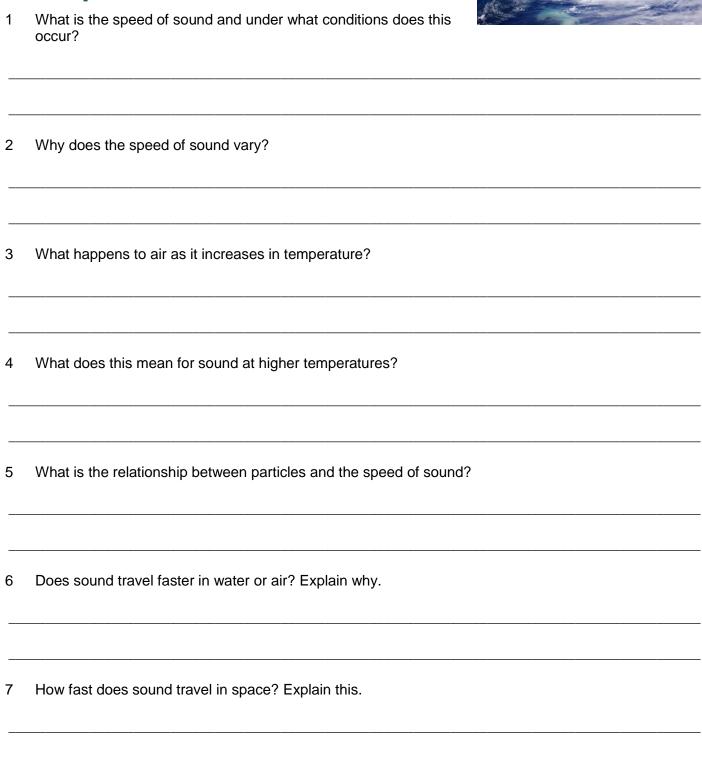


Student worksheet

4.2 Sound can travel at different speeds

Pages 72-73 and 194

The speed of sound



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8	On 12 May 2013, Chris Hadfield, on board the International Space Station (ISS), released a music video of his rendition of 'Space Oddity' by David Bowie. How was he able to record this in space and have people hear what he was singing?		
9	Complete the sentence: The	e more closely packed the particles in	a solid
10	In the table below, summaris	se the speed of sound.	
		CAUSES PARTICLES TO:	WHICH MEANS THAT SOUND WILL TRAVEL:
In	creasing temperature		
Ma	aking something more solid		
11	Explain how sonar works.		
 12 	Provide 2 applications for so	onar.	
Ма	tend your understand ny daredevils over recent yea rier.	ling Irs have dedicated a great deal of tim	e and money to breaking the sound
13	What is the sound barrier?		

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14	What happens when you break the sound barrier?
15	Would it be easier to accomplish this in a plane or a car? Explain why.
16	You are travelling very fast in a convertible car and break the sound barrier. You decide to tell this to your best mate sitting beside you. Can your mate hear you? Explain your answer.
17	How fast does a commercial airliner travel? Is this faster or slower than the speed of sound?
18	Can you hear people talk to you when you are on a plane? Explain your answer.