

Science Assessment: All About Sound with Nova the Owl

Learning objective: To identify how sounds are made, how they travel, and how we hear them.

Read each question carefully. Use the word bank to help you spell your answers. Write your answers on the lines provided.

Nova the Owl is exploring the forest. She hears the rustle of leaves, the hoot of her friends, and the splashing of the stream. Everything makes a sound because something is moving!

Word bank: vibrate · ear · sound · pitch · volume · travel · solid · liquid · gas

1. 1. When an object makes a sound, it moves back and forth very quickly. What is this movement called? (2 marks)

2. 2. Sound needs to move through something to reach our ears. Name two things that sound can travel through. (2 marks)

3. 3. If a sound is very quiet, we say it has low _____. If a sound is very loud, we say it has high _____. (2 marks)

4. 4. Nova wants to make a high pitch sound and a low pitch sound. How can she change the pitch of a string instrument? (Hint: Think about tight or loose strings.) (4 marks)

5. 5. Why do sounds get quieter the further away you move from the source? Explain your answer using what you know about sound traveling. (5 marks)

6. 6. Imagine you are in a room with a friend. How does the sound of your voice travel from your mouth to your friend's ear? (5 marks)

7. 7. Give one example of a musical instrument and explain how it makes a sound. (5 marks)

Draw: Draw a picture of an instrument (like a drum or a guitar) and use an arrow to show where the vibration happens.



Extension challenge: Total: /25. Challenge: Can you write a sentence about how we can protect our ears from sounds that are too loud?