



Name: Form:

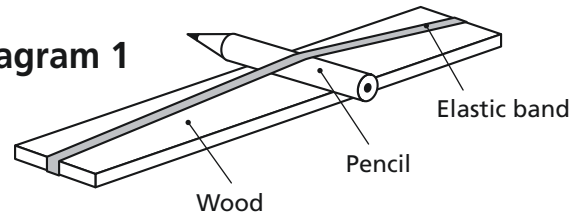
Based on pages 8 and 9 of *Changing sounds*

Investigating loudness

Try this...

1. Set up an elastic band and a pencil on a piece of wood as Diagram 1 shows.

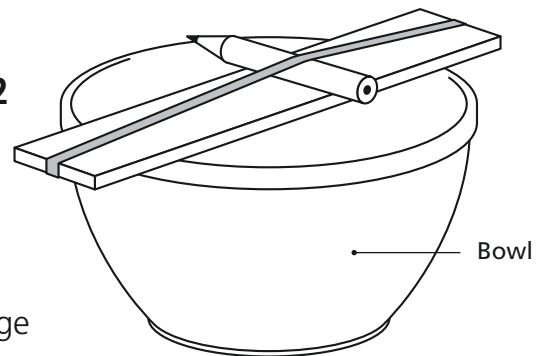
Diagram 1



2. Pluck the elastic band.

3. Now place the wood over an empty bowl as Diagram 2 shows.

Diagram 2



4. Pluck the elastic band again.

5. How did the sound of the elastic band change when you placed the wood over the bowl?



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6. How could you check your answer to step 5? Predict what might happen.



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7. Check your answer to step 6. How did your prediction compare with the result?



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8. Here are some sounds and their loudness on the decibel scale.

Road drill: 110dB

Vacuum cleaner: 80dB

Normal speech: 50dB

Whisper: 30dB

A sound that can just be heard: 10dB

On a separate sheet, plan an investigation into the loudness of sounds around the school. Show your plan to your teacher. If your teacher agrees, carry out your investigation.

9. What do your investigations show?



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