9. Bottle Tone opposition

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The Problem

Take an empty bottle and blow air across its mouth to produce a sound. Now fill the bottle with some water and study how the sound changes.

Addressing the problem

Theoretical Model/Sound Predictions	
Valid Experimental Data	
Why The Sound Changes	
Relevant Variables Tested	

Strengths

Theory

- Had staring to calculating frequency

Practical

- Did a number of tests

Weaknesses

Theory

- No theoretical mode
- Theory was irrelevant
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Practical

- Invalid data
- Not enough variable tested or controlled
- Does not explain how to measure frequency
- No graphs
- No comparison of data

Points for discussion

- How can you measure the frequency of a sound
- How would you be able to predict the frequency for a bottle
- How can you be sure you method was fair
- Explain conclusions