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Name: _____
Date: _____

Bill Nye: Sound

Watch the video on sound and answer the questions that follow.

1. Sound is tiny movements of air or _____

2. An oscilloscope does what?

3. Why is the human ear cup shaped?

4. Does sound travel faster through metal or the air?

5. What happens to a sound wave when it hits something and bounces back?

6. What shape do sound waves reflect off of well?

7. What does the ear drum do?

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Bill Nye Sound

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Bill Nye Sound Video

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Waves Worksheet

Name: _____ Date: _____ Period: _____

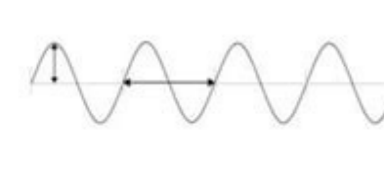
Amplitude - Height of wave. Measured from the equilibrium position to the top of a crest or the bottom of a trough (see vertical arrow).

Wavelength - Length of a single wave cycle (horizontal arrow). Measure distance between 2 identical points on consecutive waves.

Frequency - # of waves that pass a point in a given amount of time. **Units: Hz = waves/second**

Speed = wavelength x frequency

****The time from the beginning to the end of the wave in each situation is 2 seconds.**



Wave 1 (1 second)

- How many wave cycles are completed in this diagram? _____
- Wavelength _____ cm
- Amplitude _____ cm
- frequency _____ Hz
- speed _____ cm/s

Wave 2

- How many wave cycles are completed in this diagram? _____
- Wavelength _____ cm
- Amplitude _____ cm
- frequency _____ Hz
- speed _____ cm/s

Wave 3

- How many wave cycles are completed in this diagram? _____
- Wavelength _____ cm
- Amplitude _____ cm
- frequency _____ Hz
- speed _____ cm/s

Wave 4

- How many wave cycles are completed in this diagram? _____

PREVIOUS PAPER (.pdf) PRINTOUTS INCLUDED

The following pages are archived versions of the documents for your use. These were revised, modified and used to build the Google Doc™ versions.



Modifications to Google Doc versions:

- Forced decision statements ([links](#), [links](#), [links](#)) were converted to Fill-In-The-Blanks.
- All words in the Answer Bank are used only once and all words are used.
- Pages have been re-ordered over the last 6 years but are no longer supported for revision.

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