

Pitch the sound



Background knowledge

Did you ever wonder how an instrument makes a high or low note? When objects vibrate, they do so either quickly or slowly. The rate at which something vibrates is called the *frequency*. A slow rate of vibration produces a low note (low frequency). A fast rate of vibration produces a high note (high frequency). The word *pitch* is used to talk about low and high notes. We measure how fast something vibrates in units called *hertz* (Hz). One vibration per second = 1 Hz.

Science activity

Look at the pictures of vibrating objects below, and note the frequency at which each one is vibrating (in Hz). Try to order them according to the pitch of the notes that they produce. Number the pictures from 1 to 4, with 1 identifying the object with the highest note.



100 Hz

☐

300 Hz

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256 Hz

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440 Hz

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