

## Science Calculation About Sounds

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*Physics Education: Sound \u0026amp; Radio Wave Calculations Explained (Stuart Method) GR. 8*  
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### Science Calculation About Sounds

Frequency is measured in hertz (Hz). For sound, this means the number of pressure waves per second that would move past a fixed point. It is also the same as the number of vibrations per second the particles are making as they transmit the sound. A sound of 10Hz means that 10 waves would pass a fixed point in 1 second.

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### Measuring sound — Science Learning Hub

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The sample rate is how many samples, or measurements, of the sound are taken each second. The more samples that are taken, the more detail about where the waves rise and fall is recorded and the...

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### Sample rate - Encoding audio and video - GCSE Computer ...

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Bit rate is calculated by: Sample rate  $\times$  bit depth. As with sample rate, the higher the bit rate, the better quality of the recorded sound. curriculum-key-fact. Bit depth refers to the number of ...

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## Sound - Data representation - OCR - GCSE Computer Science ...

The data logger recorded a time of 0.01 s for the sound to travel between the microphones. average speed = distance travelled  $\div$  time taken =  $3.4 \div 0.01 = 340$  m/s. Sound through different materials

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## Speed of sound - Sound waves - KS3 Physics Revision - BBC ...

The speed of sound in air is about 340 m/s. This is much less than the speed of light in air which is about 300,000,000 m/s. This explains why we see lightning before hearing thunder. The speed of...

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## Human hearing and the speed of sound - Sound - GCSE ...

This could be calculated as  $3 \times 4 \times 250 \times 250 \times 16$ . Divide by 8 to convert to bytes. = 1,500,000 bytes. Divide by 1024 to convert to kilobytes. = 1464.84 kilobytes (KB).

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## Graphics - Media Types - National 5 Computing Science ...

The bit rate of a file tells us how many bits of data are processed every second. Bit rates are usually measured in kilobits per second (kbps). A typical, uncompressed high-quality audio file has ...

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## Bit rate - Encoding audio and video - GCSE Computer ...

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## Science Calculation About Sounds

Speed of sound in air. Air is almost an ideal gas. The formula for the speed of sound in ideal gases is:  $c = \sqrt{\gamma * R * T / M}$  where:  $c$  - the speed of sound in an ideal gas;  $R$  - the molar gas constant, approximately  $8.314,5 \text{ J} \cdot \text{mol}^{-1} \cdot \text{K}^{-1}$ ;  $\gamma$  - the adiabatic index, approximately 1.4 for air;  $T$  - the absolute temperature;  $M$  - the molar mass of the gas. For dry air is about  $0.028,964,5 \text{ kg/mol}$

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## Speed of Sound Calculator

The level of sound pressure is therefore distance dependent. The level of sound power is not distance

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dependent. The formula for converting sound power level to sound pressure level:  $L_p = L_W - 10 \times \log (Q / 4 \pi r^2)$  in dB. For  $Q = 1$  is  $SWL = SPL + [20 \times \log_{10} (r)] + 11$  dB.

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