# Science Calculation About Sounds

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*Physics Education: Sound \u0026 Radio Wave Calculations Explained (Stuart Method)*

GR. 8 COMPUTING FOR THE SPEED OF SOUND THROUGH AIR: MELC ~~Sound Intensity Level~~

~~in Decibels \u0026 Distance - Physics Problems~~ ~~Speed of Sound Calculation in Air Physics~~ *Speed of Sound in Solids, Liquids, and Gases - Physics Practice Problems Calculating*

*Sound Exposure (Sound Dose)*

~~Calculate the Intensity When dB (Decibel) Value is Given Wavelength, Frequency, Energy, Speed, Amplitude, Period Equations \u0026 Formulas - Chemistry \u0026 Physics~~

*What is Sound?* ~~Sound Intensity Physics Problems \u0026 Inverse Square Law Formula~~ *Beat Frequency Calculation for Sound in Physics* ~~All About Sound For the Love of Physics (Walter Lewin's Last Lecture)~~ ~~Light~~

Is Waves: Crash Course Physics #39 Standing wave harmonics on guitar strings (and pianos, banjos, and harps, I guess) | Doc Physics Frequency, Wavelength, and the Speed of Light | a video

~~course made easy by Crash Chemistry Academy~~ **The equation of a wave | Physics | Khan Academy** Wave Period and Frequency **Sound Intensity and Decibels Distinctly Defined, Dude | Doc Physics**

*Propagation of Sound* ~~What produces Sound? | Physics | Don't Memorise Measuring Speed of Sound Using Echoes | GCSE Physics~~ *Wave Motion | Waves | Physics | FuseSchool* Sound Properties (Amplitude,

Period, Frequency, Wavelength) | Physics | Khan Academy ~~What Does An Equation Sound Like?~~ *Sound: Crash Course Physics #18 Reflection of Sound (Physics) Using the Wave Equation*

*(Wavelength, Speed and Frequency)*

**Stroke volume, Cardiac output and heart sounds (lub and dub)**

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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 × 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 ÷ time taken = 3.4 ÷ 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 x 4 x 250 x 250 x 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

Bit rate - Encoding audio and video - GCSE Computer ...
A beautiful, free online scientific calculator with advanced features for evaluating

percentages, fractions, exponential functions, logarithms, trigonometry, statistics, and more.

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Desmos | Scientific Calculator

Science

Calculation About Sounds.pdf Science US&World: Science News News features and analysis of national and foreign science topics Science , astronomy, chemistry, research, lab, outer space,

space exploration, medical breakthroughs, dna us-world/science Peter Fimrite, Science and Environment Reporter Peter Fimrite is The Chronicle's lead science reporter,

covering environmental ...

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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 J · mol −1 · K −1; γ - 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 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 dependent. The formula for converting sound power level to sound pressure level: $L_p = L_W - 10 \times \log ( Q / 4 \pi \times r^2)$ in dB. For Q = 1 is SWL

$$= SPL + [20 \times \log 10 ( r )] + 11 \text{ dB}.$$