

Kompetensi Pedagogik Guru

Nov 18, 2025 · For a singer to shatter glass, their voice would need to produce an extremely high decibel level, precisely match the glass's resonant frequency, and maintain that note for an extended period. ... The wine glass breaks because of resonance. With other pitches, the glass may vibrate a little, but at resonance (in this case 500 Hz) the glass vibrates a great deal because it is hit with so much acoustical ... The experiment showed that a "rigid" piece of glass can undergo vibration 800 times a second for several seconds before shattering. This demonstrates the power of sound and its ability to cause objects to ... However, its sound should be demonstrated to the audience by either tapping the glass or (better) rubbing its rim with a moistened finger. It should be emphasized to the class that the frequency of the sound is ...

Mar 12, 2024 · It is possible to shatter glass with a high-pitched sound under specific conditions. For glass to shatter, the sound must match the glass's natural resonant frequency (around 556 hertz) and be ... The vibration of the fundamental mode of the wine glass can be crudely modeled as a damped harmonic oscillator with a resonant frequency equal to the fundamental mode's frequency. If you can match the pitch of your voice to the resonant frequency of the glass the vibrating air will start the glass vibrating too. If you can do this with sufficient volume, the glass will try to move in its vibration ... Large speaker with signal generator/amplifier destroys a wineglass; stroboscopic illumination shows vibration mode. What it shows: Sound waves of the right frequency are used to excite a wineglass in one ... Dec 7, 2025 · The phenomenon of

breaking glass with sound is a captivating example of resonance, where a specific sound frequency matches the natural frequency of the glass, causing it to vibrate intensely ... Did you know you can shatter a wine glass using only sound? In this video, Museum Educator Emily explains how you can measure the unique sound produced by a glass's vibration, and that sound is ...

[PHYS 420C - Sound and Acoustics](#)

What is the physics involved with breaking glass with your voice?

lesson template - Boston University

The Science Behind The Myth: What Sound Frequency Breaks Glass?
[Glass Shattering Experiment | Museum of Science](#)
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Shattering Wineglass | Harvard Natural Sciences Lecture Demonstrations Resonant Frequency and Shattering Glass - Science Fair Projects

Can you really shatter a glass with a high note? -

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Can Sound Really Shatter Glass? The Science of Frequency

Kompetensi Pedagogik Guru

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