

PHET Introduction to Waves, Part II: Sound

ANSWER KEY and TEACHING NOTES

Go to the Phet website at <https://phet.colorado.edu/en/simulation/waves-intro> and choose the Sound simulation.

SETUP

Also attach your wave meter and drag one probe into the wave-viewing area.

Click on *Both Particles and Waves* so you can watch how both vary.



ANALYSIS

1. Explore the sound simulation as you change the amplitude and frequency. Look for patterns and relationships. **No answer needed!**
2. Do the particles move in the same direction as the wave or perpendicular to the motion of the wave? What do we call this kind of a wave? (transverse or longitudinal?) **Same direction, longitudinal. Be careful that they might confuse this with a water wave which is a special case, not a pure longitudinal wave. Basically the water particles move in 2-dimensional circles while sound waves merely oscillate back-and-forth.**
3. Freeze and observe: are the particles closer together or farther apart in the white area of the wave-viewing area? **Farther apart**
4. What is the name for this portion of a wave? **Rarefaction (where the particles are more rare)**
5. Are the particles closer together or farther apart in the dark area of the wave-viewing area? **Closer**
6. What is the name for this portion of a wave? **Compression**
7. Follow one red dot as the waves cross it. After a number of waves have crossed it what happens to its net displacement? **There is no net displacement, they keep coming back.**
8. Do the particles ever move permanently across the field of view? If the particles are not moving, what is moving? **No, energy**
9. The graph is a graph of kinetic energy. How would you describe the difference between the energy at a peak and the energy at a trough? **The amount of energy is the same but the direction is opposite.**

Phet Radio Waves Answer Key

O García



Phet Radio Waves Answer Key:

Phet Radio Waves Answer Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Phet Radio Waves Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://crm.avenza.com/book/detail/Documents/sample_payroll_policy_manual.pdf

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Phet Radio Waves Answer Key Introduction

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