

## 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

**David Kirk**



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The following are suggested answers to the review questions at the end of chapters in Physical Geology. Answers to the exercises are provided in Appendix 3. Exploring Geology 4th Edition by Reynolds Johnson Morin ... Exploring Geology 4th Edition by Reynolds Johnson Morin Carter ISBN Solution ... 2.0 Investigating Geologic Questions • 2.1 What Can We Observe in Landscapes? It's Just My Nature! by Carol Tuttle It focuses more on understanding who you actually are (when you were born, in your real nature) vs. looking at who you have become based on the behaviours that ... It's Just My Nature - Carol Tuttle This book very clearly shows how all personalities are rooted in four areas, compared to fire, water, earth, and air... All people have all personalities but it ... It's Just My Nature! A Guide To Knowing and Living ... Carol Tuttle is a teacher, speaker, gifted healer, and best-selling author of 7 books. As a pioneer in the field of personal development, she has dedicated her ... It's Just My Nature! Best-selling author Carol Tuttle provides compelling and life changing ... While Carol offers a variety of assessment tools-including her Dressing Your Truth ... It's Just My Nature!: A Guide to Knowing and Living Your ... Best-selling author Carol Tuttle provides compelling and life changing answers to these simple questions in her newest book It's Just My Nature! It's Just My ... It's Just My Nature! A Guide to Knowing... book by Carol Tuttle I have come to understand through Carol Tuttle's book "It's Just My Nature" that we all have strengths (and weaknesses too, of course). As a Type 2, my nature ... It's Just My Nature! - Dressing Your Truth Store - Carol Tuttle The full overview of Energy Profiling. Teaches a comprehensive study of the 4 Energy Types and how they express in the nature kingdom and human nature. It's Just My Nature (Paperback) Oct 8, 2012 — It's Just My Nature Reveals a startlingly accurate method for assessing your personality and behavioral tendencies with a new system called ... It's Just My Nature (Paperback) Oct 8, 2012 — It's Just My Nature Reveals a startlingly accurate method for assessing your personality and behavioral tendencies with a new system called ... It's Just My Nature (Paperback) Oct 8, 2012 — While Carol offers a variety of assessment tools including her Dressing Your Truth events she leaves the realization of your true Type to you.