

7th Grade Science Final Study Guide

1. A sound wave traveling through a solid material has a frequency of 250 hertz. The wavelength of the sound wave is 2 meters. What is the speed of sound in the material?

Speed = wavelength x frequency

$$\text{Speed} = 2\text{meters} \times 250 \text{ Hz} = 500 \text{ m/s}$$

2. A tuning fork is used to produce sound waves with a frequency of 220 hertz. The waves travel through the air at 340 m/s. What is the wavelength of the sound wave?

Wavelength = speed/frequency

$$\text{Wavelength} = 340/220 = 1.55 \text{ meters}$$

3. What is the frequency of ocean waves that have a speed of 20 m/s and a wavelength of 50 m?

Frequency = speed/wavelength

$$\text{Frequency} = 20/50 = 0.4 \text{ Hz}$$

4. A radio station transmits to a receiving antenna. What type of wave is the radio wave?

Radio waves are transverse waves and electromagnetic waves.

5. A student shakes the end of a rope with a frequency of 2.0 hertz, causing waves with a wavelength of 0.9m to travel along the rope. What is the velocity of the wave?

Speed = wavelength x frequency

$$\text{Speed} = 0.9 \times 2.0 = 1.8 \text{ m/s}$$

6. One end of a horizontal string is caused to oscillate vertically while the other end is attached to a fixed object. What type of wave travels along the string?

A transverse wave travels along the string.

7. Why would astronauts on the moon not be able to hear a landslide (think about air molecules)?

Because sound waves need a medium to travel through (they are mechanical waves) and there is no medium (air) in space. If there are any air molecules in space, they are too far apart in space for the sound to be able to travel.

8. How are radio waves, visible light, and x-rays the same in a vacuum?

They all travel the same speed (speed of light).

9. Where can sound waves not travel?

Sound waves cannot travel in a vacuum (such as outer space).

10. What is a rarefaction? Give an example.

A rarefaction is a part of a compressional wave where the particles are more spread out.



Louisiana 7th Grade Science Study Guide

S Ben Porath



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Resources in Education ,1990 *Research in Education* ,1968-07 **Report** International Clearinghouse on Science and Mathematics Curricular Developments,1966 *Course of Study: Social Science, Elementary Grades, Grade Six ...* Oklahoma City (Okla.). Board of Education,1930 **America's Educational Press** ,1928 **Resources in Education** ,1990 *Readers' Guide to Periodical Literature* Anna Lorraine Guthrie,1929 An author subject index to selected general interest periodicals of reference value in libraries **Curriculum Development Library** ,1980 **School Life** ,1922

Monthly Checklist of State Publications Library of Congress. Exchange and Gift Division,1988 June and Dec issues contain listings of periodicals **Report of the International Clearinghouse on Science and Mathematics Curricular Developments** International Clearinghouse on Science and Mathematics Curricular Developments,1966 **Classified List of Educational Periodicals** Educational Press Association of America,1930 **Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant** , □□□□□□□□ □□,□□□,□□□,1985 Loyola Educational Index Austin Guildford Schmidt,1928 *National Union Catalog* ,1983 Includes entries for maps and atlases **Research Bulletin** ,1922 *School Life* ,1946-11 Research Studies in Education ,1965 **Books in Series** ,1985 Vols for 1980 issued in three parts Series Authors and Titles

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Louisiana 7th Grade Science Study Guide** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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