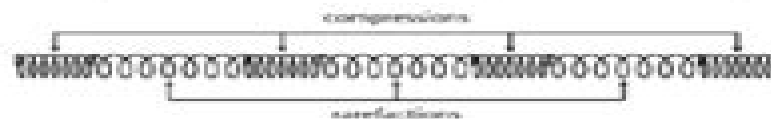


### 7<sup>th</sup> Grade Science Final Study Guide

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?  
 $\text{Speed} = \text{wavelength} \times \text{frequency}$        $\text{Speed} = 2\text{meters} \times 250 \text{ Hz} = 500 \text{ m/s}$
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?  
 $\text{Wavelength} = \text{speed}/\text{frequency}$        $\text{Wavelength} = 340/220 = 1.55 \text{ meters}$
3. What is the frequency of ocean waves that have a speed of 20 m/s and a wavelength of 50 m?  
 $\text{Frequency} = \text{speed}/\text{wavelength}$        $\text{Frequency} = 20/50 = 0.4 \text{ Hz}$
4. A radio station transmits to a receiving antenna. What type of wave is the radio wave?  
 $\text{Radio waves are transverse waves and electromagnetic waves.}$
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?  
 $\text{Speed} = \text{wavelength} \times \text{frequency}$        $\text{Speed} = 0.9 \times 2.0 = 1.8 \text{ m/s}$
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?  
 $\text{A transverse wave travels along the string.}$
7. Why would astronauts on the moon not be able to hear a landslide (think about air molecules)?  
 $\text{Because sound waves need a medium to travel through (they are mechanical waves) and there is no medium (air) in space. If there are any air molecules in space, they are too far apart in space for the sound to be able to travel.}$
8. How are radio waves, visible light, and x-rays the same in a vacuum?  
 $\text{They all travel the same speed (speed of light).}$
9. Where can sound waves not travel?  
 $\text{Sound waves cannot travel in a vacuum (such as outer space).}$
10. What is a rarefaction? Give an example.  
 $\text{A rarefaction is a part of a compressional wave where the particles are more spread out.}$



# Grade 7 Science Final Study Guide

**Jianjun Gao**



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