

**Physical Science- Wave Calculations**

Speed of a wave = wavelength x frequency

**$v = \lambda f$**

v= velocity (speed), measured in m/s

 $\lambda$ = wavelength, measured in m

f= frequency, measured in Hz (Hz = 1/s)

The speed of a wave depends on the medium that it is travelling through.

**$f = 1/T$**

f= frequency, measured in Hz

T= period, measured in s

1. A wave along a guitar string has a frequency of 540 Hz and a wavelength of 2.5 meters. Calculate the speed of the wave.

| Equation | Rearranged Equation | Work | Final Answer |
|----------|---------------------|------|--------------|
|          |                     |      |              |

2. The speed of sound in air is about 340 m/s. What is the wavelength of sound waves produced by a guitar string vibrating at 490 Hz?

| Equation | Rearranged Equation | Work | Final Answer |
|----------|---------------------|------|--------------|
|          |                     |      |              |

3. The speed of light is 300,000,000 m/s. What is the frequency of microwaves with a wavelength of 0.01 meter?

| Equation | Rearranged Equation | Work | Final Answer |
|----------|---------------------|------|--------------|
|          |                     |      |              |

4. What is the period of the microwaves in the above question?

| Equation | Rearranged Equation | Work | Final Answer |
|----------|---------------------|------|--------------|
|          |                     |      |              |

5. The string on a piano that produces an A sharp vibrates with a frequency of 235 Hz. If the sound waves produced by this string have a wavelength in air of 1.49 meters, what is the speed of sound in air?

| Equation | Rearranged Equation | Work | Final Answer |
|----------|---------------------|------|--------------|
|          |                     |      |              |

6. The average wavelength in a series of ocean waves is 15.0 meters. A wave crest arrives at the shore on an average of every 10.0 seconds, so the frequency is 0.100 Hz. What is the average speed of the waves?

| Equation | Rearranged Equation | Work | Final Answer |
|----------|---------------------|------|--------------|
|          |                     |      |              |

7. An FM radio station broadcasts electromagnetic waves at a frequency of 94.5 MHz (equal to 94,500,000 Hz). These radio waves have a wavelength of 3.17 meters. What is the speed of the waves?

| Equation | Rearranged Equation | Work | Final Answer |
|----------|---------------------|------|--------------|
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# Physical Science Chapter16 Review Answers

**JR Anderson**



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