

## REVIEW FOR WAVES QUIZ

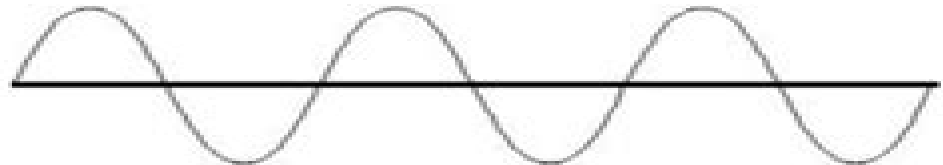
Name: \_\_\_\_\_ Quiz Date: \_\_\_\_\_

This quiz will cover information from the first part of our unit on waves. It will consist of some multiple choice, fill-in-the-blank, drawing, and short answer questions. You should review your DQs, labs, waves article, simulation, reading notes, and concepts from activities we've done. Be able to hit the following targets:

- *I can diagram and describe the anatomy and characteristics of mechanical, electromagnetic, transverse, and longitudinal waves.*
- *I can describe and diagram how to change the wavelength, amplitude, and frequency of a wave.*
- *I can explain and calculate how the energy of a wave is related to the amplitude and wave speed.*

1. Waves that do not require a medium to transfer energy are called \_\_\_\_\_ waves.  
A. mechanical                                      C. transverse  
B. electromagnetic                                D. longitudinal
2. Waves whose particles vibrate in the same direction the wave travels are called \_\_\_\_\_ waves.  
A. mechanical                                      C. transverse  
B. electromagnetic                                D. longitudinal
3. The number of waves produced in a given amount of time is better known as:  
A. amplitude                                        C. frequency  
B. reflection                                        D. wavelength
4. The energy of a wave is directly calculated using its \_\_\_\_\_.  
A. amplitude                                        C. frequency  
B. wavelength                                       D. Hertz
5. An example of a medium is a:  
A. solid    C. gas  
B. liquid     D. all of the above
6. Clearly label the diagram of the transverse wave with the following terms: **crest**, **trough**, **wavelength**, and **amplitude**.

7. If the wave shown here is being created by moving a slinky back and forth along the ground, describe what you would have to do to increase its frequency?



# **Mechanical Waves Review Multiple Choice Questions**

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