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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.
- Waves that do not require a medium to transfer energy are called waves
  - A. mechanical

- C. transverse
- B. electromagnetic
- D. longitudinal
- 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

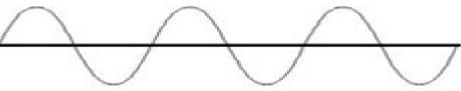
B. wavelength

- D. Hertz
- 5. An example of a medium is a:
  - A. solid.

C. gas

B. liquid

- D. all of the above
- 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 Matching Key**

**The Princeton Review** 

**Mechanical Waves Review Matching Key:** 

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