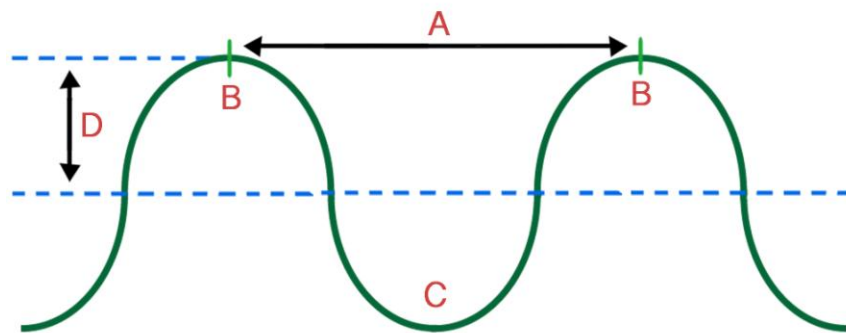


# Transverse Waves Quiz

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1. In your own words, and using the information in the lesson, describe the primary difference between mechanical and electromagnetic waves.
2. In a transverse wave, how does the movement of the medium relate to the direction of the transfer of energy?

Use the image below to answer questions 3 – 6:



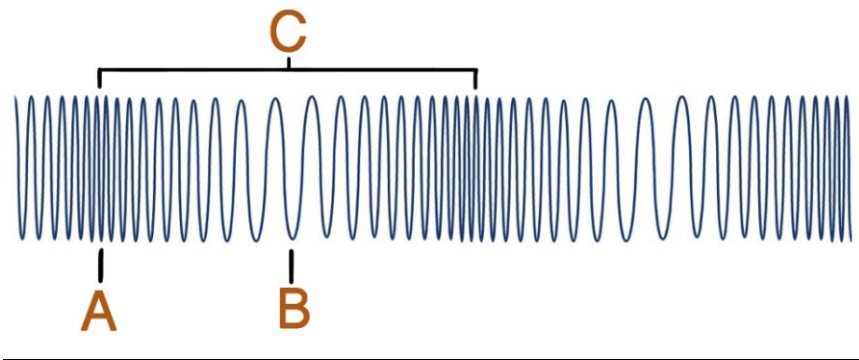
3. What is the name of the wave characteristic at location A?
4. What is the name of the wave characteristic at location B?
5. What is the name of the wave characteristic at location C?
6. What is the name of the wave characteristic at location D?
7. What are the terms for a) the time required for one complete wave to pass a given point, and b) the number of waves that pass a given position in 1 second?
8. A particular sound wave has a frequency of 312Hz, what is the period?
9. A sound produced 687ft away is heard 2.0s later, what is the speed of the sound through the air?

# Longitudinal Waves Quiz

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1. In your own words, and using the information in the lesson, describe the primary difference between transverse and longitudinal waves.
2. In your own words, and using the information from the lesson, explain how amplitude is measured in the case of longitudinal waves.

**Use the image below to answer questions 3-5:**



3. According to the lesson, what part of a longitudinal wave is identified by letter "A" in the image?
4. According to the lesson, what part of a longitudinal wave is identified by letter "B" in the image?
5. According to the lesson, what part of a longitudinal wave is identified by letter "C" in the image?