**Name:**

**Date:**

**School:**

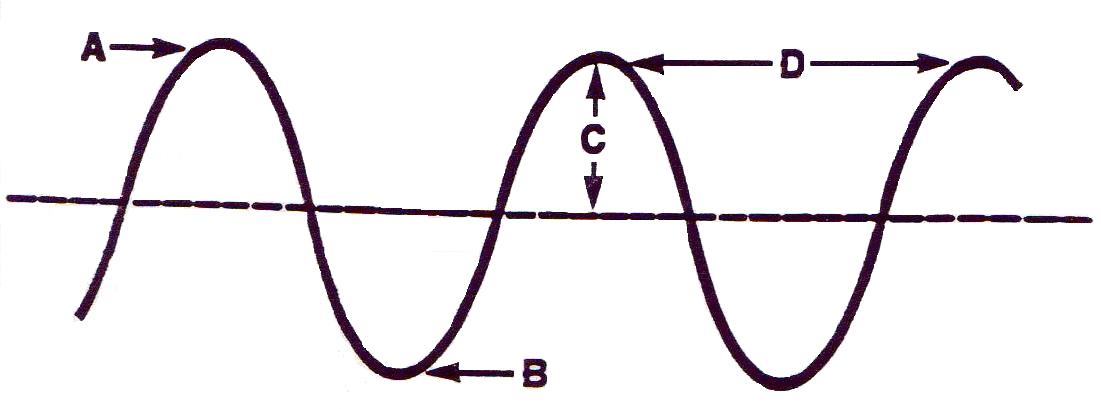
**Facilitator:**

9.02 Label a Wave

**In Parts 1 and 2, answer the following questions about the different wave illustrations.**

# Part 1: Transverse Waves

1. Label each part of the transverse wave in the space provided.



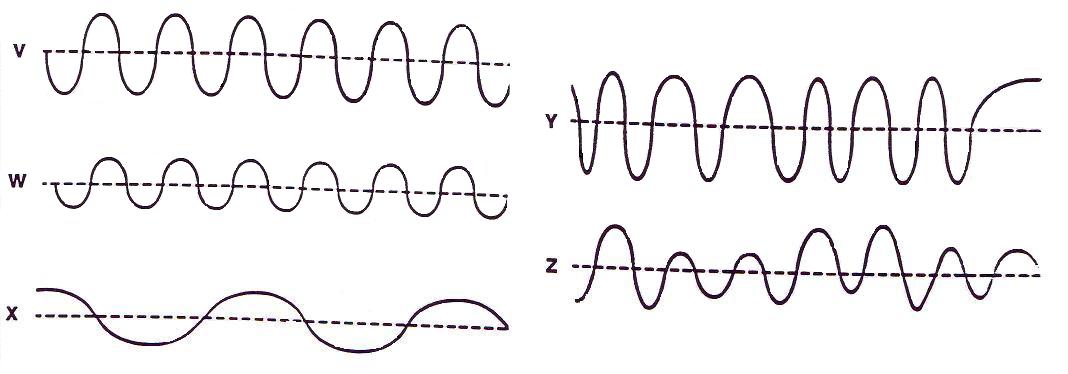


1. Complete these sentences with the correct words.
   1. The highest point on a transverse wave is the      .
   2. The lowest point on a transverse wave is the      .
   3. The distance from one crest to the next crest is the      .
   4. is a measure of the number of waves that pass a point in a given amount of time.

**See Part 2 on the next page.**

# Part 2: Comparing Waves

**Use the five illustrations of transverse waves below to answer the following questions.**



1. Waves V and W have the same       but wave V has twice the       of wave W.
2. Waves W and X have the same       but wave X has half the       of wave W.
3. Wave       shows a steady frequency but a changing amplitude.
4. Wave       shows a steady amplitude but a changing frequency.
5. Waves       and       have a low amplitude and a steady frequency.
6. When the particles of the medium move back and forth along the direction of the wave motion, the wave is a            .
7. When the particles of a medium are far apart, that part of the wave is called a      .
8. Compression is the part of the medium where particles are      .
9. A wave in which the particles of the medium move at right angles to the direction in which the wave travels is called a            .