Skills Worksheet

Concept Review

Section: Types of Waves

1. Give three examples of mechanical waves, and identify the medium through which they travel.

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2. a. Name the one type of wave that does not require a medium.

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b. State what oscillates in this type of wave.

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3. Describe the motion of the particles in the medium for each type of wave.
   How does this motion compare to the direction the wave travels?
   a. transverse wave

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b. longitudinal wave

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4. Explain what happens to the motion of a particle as a wave passes through a medium. How is the motion of the particle like the motion of a mass on a spring?

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5. Use the figure below to answer the following questions. The figure shows a pattern of wave fronts that are formed when a pebble is dropped into a pool of water.
   a. Compare the height of the wave fronts in circles A, B, and C.

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b. Indicate the wave front in which the energy of the wave is most spread out.

_______________________________________________________________

  C

 c. Compare the amount of total energy in each of the wave fronts.

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