REVIEW

9 SECTION 9.3

What Is Energy?

1. **Define** the following terms:

   a. kinetic energy

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   b. potential energy

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   c. mechanical energy

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2. **Calculate** the gravitational potential energy of a 95 kg rock at the top of a 45 m cliff. The acceleration due to gravity is 9.8 m/s².

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3. **Calculate** the kinetic energy of a bicyclist traveling at 11 m/s. The total mass of the cyclist and the bike is 74 kg.

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4. **Identify** the type of energy stored in a stretched bungee cord.

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5. **Explain** how sunlight is converted into potential energy by plants.

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6. **Explain** how the kinetic energy of an object changes when the speed of the object doubles.

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7. **Contrast** chemical energy and mechanical energy.

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