

## Energy Study Guide Answer Key

1. Energy is the ability to do work or cause change and occurs in many forms.
2. The two main types of energy are potential energy and kinetic energy.
3. Define Potential Energy: Potential energy is stored energy or energy at rest. Potential energy can be increased or decreased due to position or condition.
4. Which skier (A, B, or C) has more potential energy in the picture below? Skier C has the most potential energy because he/she has the ability to fall further.
5. Define Kinetic Energy: Kinetic energy is energy of motion or movement. Anything in motion has kinetic energy. Kinetic energy can be increased or decreased due to potential energy increasing or decreasing.
6. The amount of kinetic energy a moving object has depends on its mass and its speed.
7. In each of the following pairs, CIRCLE which would have more kinetic energy rolling down a hill:
  - a. boulder
  - b. bowling ball
  - c. Hummer
  - d. WHY did you choose the ones you circled? These objects have more mass so they will have more kinetic energy rolling down a hill.
8. In the picture below, when does the swinger have the most potential energy? The swinger has the most potential energy at the A position.  
  
When does the swinger have the most kinetic energy? The swinger has the most potential energy at the B position.  
  
When does the swinger switch from potential to kinetic energy? The swinger switches from potential to kinetic energy as she reaches the top of her swing (potential to kinetic) and the bottom of her swing (kinetic to potential).
9. If an object has more potential energy, how does this affect that object's kinetic energy? If an object's potential energy increases, the object's kinetic energy will also increase.

### FORMS OF ENERGY

10. What is the definition of Sound energy? Sound energy is the movement of sound waves caused by vibrations.  
  
Example(s) of sound energy: Playing the guitar, violin, singing, etc.
11. What is the definition of Chemical energy? Chemical energy is stored in atoms and molecules and released in chemical reactions that usually produce heat.

# Conceptual Physics Energy Study Guide Answers

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Hsu**



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