

## Chapter 8: Energy and Matter - Knowledge Check

- 1) Anything that takes up space and has a mass is considered
  - a. Solids
  - b. Liquids
  - c. Gases
  - d. Matter
  
- 2) The law of conservation of energy states that energy can be
  - a. destroyed
  - b. neither created or destroyed
  - c. created
  - d. both created and destroyed
  
- 3) Energy for use in cells is stored in the form of
  - a. Chemical bond energy
  - b. Physical energy
  - c. heat energy
  - d. mechanical energy
  
- 4) The *specific* process by which plants capture light energy and store it in the chemical bonds of organic molecules is called
  - a. Respiration
  - b. Photosynthesis
  - c. Phototropism
  - d. Biochemical Synthesis
  
- 5) Robin Hood shoots an arrow from his longbow. As Robin Hood releases the arrow the stored energy in the arrow becomes energy of motion. The energy the arrow has as it flies through the air towards its target is defined as
  - a. Potential Energy
  - b. Force
  - c. Acceleration
  - d. Kinetic Energy

