

1. The ability to cause a change in the matter is one definition of
  - a. work.
  - b. force.
  - c. energy.
  - d. motion.
2. Forms of energy include
  - a. mechanical energy.
  - b. electrical energy.
  - c. chemical energy.
  - d. all of the above
3. What is the kinetic energy of an object that has a mass of 10 kg and a velocity of 1 m/s?
  - a. 100 J
  - b. 10 J
  - c. 5 J
  - d. 1 J
4. What is the gravitational potential energy of an object that has a weight of 12 N and is 3 m above the ground?
  - a. 108 J
  - b. 36 J
  - c. 15 J
  - d. 4 J
5. Which statement is false about objects with kinetic energy?
  - a. They are in motion.
  - b. They are doing work.
  - c. They are moving matter over a distance.
  - d. They are using up their energy by moving.
6. The SI unit for energy is the
  - a. joule.
  - b. newton.
  - c. newton • meter.
  - d. two of the above
7. Which type(s) of energy does a person have when jumping on a trampoline?
  - a. kinetic energy
  - b. elastic potential energy
  - c. gravitational potential energy
  - d. all of the above