

Energy Worksheet # 3

1. Which example involves the transformation of chemical energy directly into light energy?
 - A) combustion
 - B) a glow stick
 - C) photosynthesis
 - D) a hydroelectric dam
2. An example of mechanical energy being converted into heat energy is
 - A) the sun.
 - B) a generator.
 - C) a Snickers bar.
 - D) rubbing your hands together.
3. When gasoline is burned in a car engine, _____ energy is converted into _____ energy.
 - A) heat, chemical
 - B) chemical, potential
 - C) mechanical, chemical
 - D) chemical, mechanical
4. Which is an accurate description of what occurs when a log burns?
 - A) Energy is created as the log burns
 - B) As the matter of the log is destroyed, it is converted into energy.
 - C) As the log burns, the nuclear binding energy of the molecules in the log is released. The nuclear binding energy is transformed into the light and heat of the fire.
 - D) The molecules present in the log are transformed into molecules that contain less energy than the original molecules. The energy difference is the heat of the fire.
5. Changes in forms of energy are called
 - A) conservations.
 - B) engines.
 - C) transformations.
 - D) turbines.
6. Which item has the MOST potential energy (assume they are all at the same height and mass)?
 - A) Rock
 - B) Magnet
 - C) Battery
 - D) Light bulb