

NAME: _____

Energy 1

Physical Science Guided Study Worksheet: Energy

1. _____ is the capacity to cause change.
2. Never destroyed or created energy only changes _____. Energy can be measured with the SI unit the _____.
3. _____ energy is due to motion.
4. _____ can be calculated using this equation:

5. _____ energy is due to position or arrangement. There are several types:
 1. _____ potential energy is due to stretching an object like a spring or a rubber band.
 2. _____ potential energy is found in foods and in fuels. This energy is released by burning or during metabolic processes in our bodies.
 3. _____ potential energy (GPE) is due to an object's position. GPE can be calculated:

6. The Law of _____ states that energy can not be created or destroyed.

Consider the following energy transformations:

7. Water at the top of a waterfall has a great quantity of _____ energy which is converted to _____ energy as the water falls.
8. Ms. Teems falls off a building and lands on a springy mattress. When Taylor was on top of the building she had a great deal of _____ which is converted to _____ when she fell on the springy mattress.
9. Mr. Glover eats many donuts so he can run fast. The donuts store _____ energy which Mr. Glover easily converts to _____ energy.