

NAME : _____

DATE : _____

Science Worksheet

- 1.) The Law of Conservation of Energy states:
- Energy can be created or destroyed but not transformed
 - Energy can't be created, destroyed or transformed
 - Energy cannot be created or destroyed, it can only be transformed
- 2.) After cooking, you place a hot pan on a cold counter. After a while, the frying pan, the counter, and the air in the room will all be at the same temperature. Why?
- Because thermal energy will be transferred from the pan to its surroundings
 - Thermal energy from the pan will absorb the coldness from the counter
 - Thermal energy from the pan will be transferred to the air, but not the counter
 - None of the above
- 3.) The heat energy that is released when fuel is consumed was originally stored in the fuel's...
- chemical bonds
 - waste products
 - burning flame
 - candle wax
- 4.) On a cold day, Jamarria puts a hot bowl of soup down on a concrete table. Describe the energy transformation that will occur.
- Heat from the air is transferred to Jamarria's hand.
 - Heat from the concrete table is transferred to the hot bowl of soup.
 - Heat from the hot bowl of soup is transferred to the car door.
 - Heat from the hot bowl of soup is transferred to the concrete table.
- 5.) If energy is lost during a chemical reaction, it is usually lost in the form of...
- potential energy
 - heat energy
 - radiant energy
 - all of the above
- 6.) According to which law of energy, energy can't be created or destroyed?
- First law of motion
 - Laws of Energy
 - The law of tacos
 - law of conservation of energy
- 7.) Which of the following is a sign that a chemical reaction has occurred?
- change in shape
 - formation of a gas
 - melting
 - dissolving
- 8.) If reactants' mass is 18g, what is the mass of the reactants?
- 15
 - 36
 - 81
 - 18