“**INTRODUCTION TO ENERGY” REVIEW**

**Part 1. The two basic types of energy**

Directions: Determine the best match between basic types of energy and the description provided. Put the correct letter in the blank.

\_\_\_\_\_\_1. A skier at the top of the mountain (a) Kinetic Energy

\_\_\_\_\_\_2. Gasoline in a storage tank (b) Potential Energy

\_\_\_\_\_\_3. A race-car traveling at its maximum speed (c) Both forms of Energy

\_\_\_\_\_\_4. Water flowing from a waterfall before it hits the pond below

\_\_\_\_\_\_5. A spring in a pinball machine before it is released

\_\_\_\_\_\_6. Burning a match

\_\_\_\_\_\_7. A running refrigerator motor

**Part 2. Forms of Energy.**

Directions: Match the energy term(s) to the description provided. A few questions may have more than one answer. USE THE BEST Answer.

\_\_\_\_\_\_\_\_\_\_\_\_\_1. Gas molecules touching a hot rock (a) Electromagnetic/solar radiation

\_\_\_\_\_\_\_\_\_\_\_\_\_2. Energy from the sun gets to earth this way. (b) Chemical

\_\_\_\_\_\_\_\_\_\_\_\_\_3. Energy released from food after it is eaten (c) Nuclear

\_\_\_\_\_\_\_\_\_\_\_\_\_4. Warmth felt from a fire (d) Conduction

\_\_\_\_\_\_\_\_\_\_\_\_\_5. Energy that is released when atoms are split. (e) Convection

\_\_\_\_\_\_\_\_\_\_\_\_\_6. Energy released during a chemical reaction (f) Radiation

\_\_\_\_\_\_\_\_\_\_\_\_\_7. Magma rising in the mantle (liquid layer of Earth)

\_\_\_\_\_\_\_\_\_\_\_\_\_8. Visible light rays, Radio waves and Ultra Violet rays. Are examples of this?

­\_\_\_\_\_\_\_\_\_\_\_\_\_9. Gasoline in a combustion engine releases this type of energy.

\_\_\_\_\_\_\_\_\_\_\_\_\_10. You burn your hand on a burner of a stove.

\_\_\_\_\_\_\_\_\_\_\_\_\_11. Energy that is released when atoms are split.

**Part 5 Essay: Answers should be in complete sentences.**

1. Describe in detail exactly what causes warmer gasses and liquids to rise, and cooler gasses and liquids to fall? What Kind of energy transfer is this?
2. Draw a labeled diagram to support your answer