Name: _	
Date:	Period:

Energy Types and Transformations Notes

Energy -

All forms of energy can be described in terms of two general types:

- 1. Kinetic Energy
- 2. Potential Energy

Kinetic -

Example: car moving

Potential -

Example: holding a soccer ball in your hands

Types of Energy:

- Chemical
- Mechanical
- Electrical
- Thermal (heat)

1. Chemical Energy:

•

Examples of chemical energy

- If you strike the wood end of a match, nothing happens. If you strike the tip with the chemicals, the match will light.
- Glow sticks

Batteries

2. Mechanical Energy:

•

Examples of mechanical energy

- •
- Windmills
- Riding a bike
- •
- T

3. Electrical Energy:

•

Examples of electrical energy

- (
- Toaster
- player
- Refrigerator

4. Thermal (heat) Energy:

- •
- •

Thermal (heat) Energy

- Conduction
- Convection
- Radiation

Conduction

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Examples of conduction

- Burning your hand on the hot stove
- •
- Burning your feet on the pavement on a hot summer day

Convection

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Examples of convection

- •
- Cooking soup
- Lava

Radiation

• Transfer of energy by light

Examples of radiation

- •
- Heat from a bonfire

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Law of Conservation -