Energy Notes
Unit 5

Energy:

___________________________________________________

___________________________________________________

Transformation:  \textit{trans-__________ form-__________}

___________________________________________________

___________________________________________________

Energy Forms:

1. Chemical
2. Mechanical
3.
4.

1. Chemical Energy
   - \textit{Specific arrangement of chemicals}
   - \textit{Examples of chemical energy}
     I. If you strike the wood end of a match, nothing happens. If you strike the tip with the chemicals, the match will light.

     II.

     III. Glow sticks

     IV.

     V.

     VI.

2. Mechanical Energy
   - \textit{Energy of an object that is moving}
   - \textit{Examples of mechanical energy}
     I. Gears

     II.

     III. Riding a bike

     IV. Juggling

     V.
3. **Electrical Energy**
   - *Energy of moving electrons*
   - *Examples of electrical energy*
     I. Curling iron
     II. Toaster
     III.
     IV.

4. **Thermal (heat) Energy**
   - *Movement of molecules to create heat*
   - *Thermal (heat) Energy types*
     i. Conduction
     ii. Convection
     iii.

   **Conduction**
   - *Transfer of energy through direct contact*
   - *Examples of conduction*
     I.
     II. Pancake on the griddles
     III.

   **Convection**
   - *Movement that transfers heat in a liquid or gas*
   - *Examples of convection*
     I. Heating your house
     II.
     III.

   **Radiation**
   - *Transfer of energy by light*
   - *Examples of radiation*
     I. Sunbathing
     II. Heat from a bonfire
     III.