

Name (First AND Last): _____ Period: _____

Energy Transformations

- Energy can change from one type to another. This is called an **energy conversion** or **energy transformation**
 - a. The *Law of Conservation of Energy* states that energy can change form, but it cannot be created or destroyed. Therefore, the total amount of energy stays the same.
 - b. In **energy transformations**, some energy is always lost to the environment as *thermal energy*.

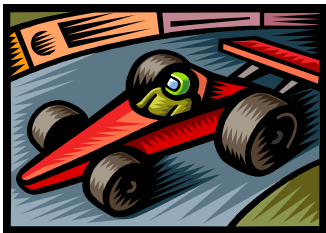
Examples of energy transformations and their uses:



- A television changes electrical energy into sound and light energy. During these transformations, it also loses energy as heat.



- A toaster changes electrical energy into thermal energy and light.

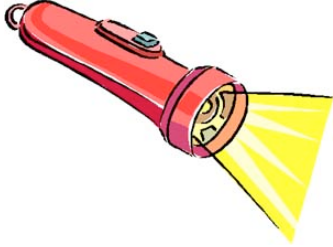


- A car changes chemical energy from fuel into thermal energy and mechanical energy.
- A car battery changes chemical energy into electrical energy and thermal energy, that electrical energy is then changed into light energy, sound energy, and thermal energy.

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Directions: For the following questions, please create a flip chart and written explanation for each energy transformation.

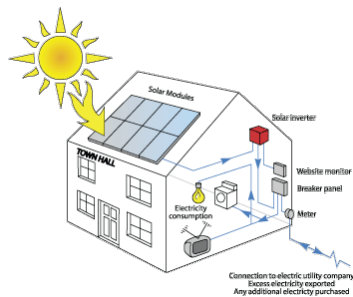
1. Flashlight:



2. Speaking into a telephone:



3. Solar Panel:



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4. Campfire:



5. Nuclear Power Plant:

