Energy Transformations (p.224, 227-230)

Energy Transformations - changes between forms of energy

Example: Microwaving Popcorn

Electric Energy Radiant Energy Thermal Energy

\_\_\_\_The Law of Conservation of Energy\_\_\_\_\_\_\_\_\_\_ = energy can be transformed from

one form into another or transferred from on region to another

* + Energy cannot be \_\_\_created\_\_\_\_\_\_ or \_\_\_\_\_destroyed\_\_\_\_\_\_\_
  + The \_\_\_total\_\_\_\_\_\_ amount of energy in the universe does \_\_\_NOT\_\_\_\_\_ change

\_\_\_Friction\_\_\_\_\_\_- is a force that resists the sliding of two surfaces that are touching



Examples of using Energy (p.229):

A gas stove:

\_\_\_Chemical\_\_\_\_\_ energy Transforms into \_\_\_Thermal\_\_\_\_ energy



Eating food:



\_\_Chemical\_\_\_\_ energy Transforms into \_\_Kinetic\_\_\_\_ energy

Listening on a cell phone:

\_\_Radiant\_\_\_\_\_ energy Transforms into \_\_Electric\_\_\_energy Transforms into \_\_Sound\_\_\_\_ energy

Think of your own example and write the transformations below!