

Unit 4

Forms of Energy

Energy

The ability to do work



chemical energy (potential energy)

Stored energy that can be released by
chemical reactions



Chemical energy



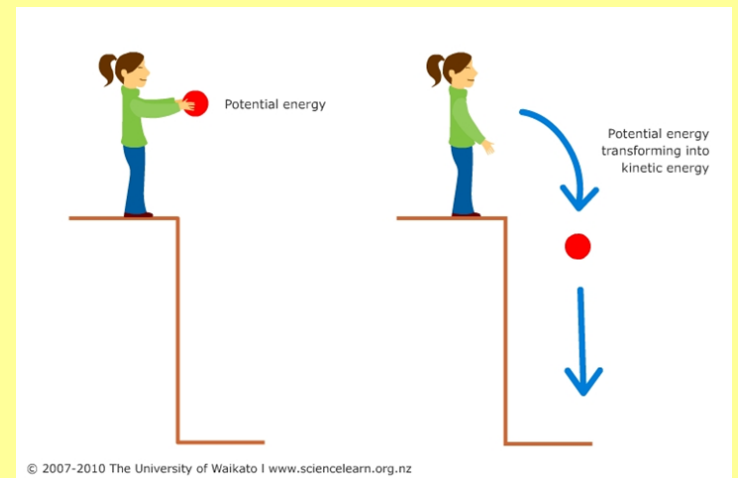
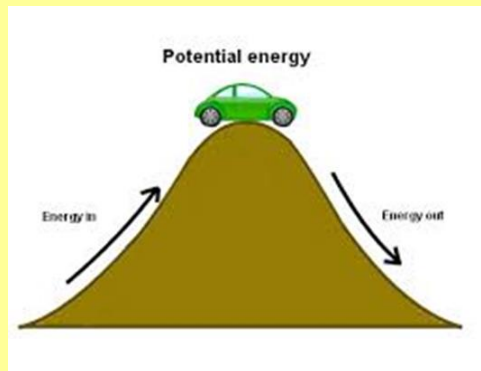
Kinetic energy



Light energy



Chemical energy



mechanical energy (kinetic energy)



Energy that is **moving (in motion)**

Energy that **does the work**

Total energy of an object due to its motion
PLUS position





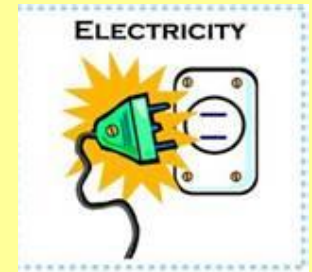
electrical energy



energy that comes from the **flow** of **electricity (electrons)** through a **conductor**.

Uses electricity by:

- plugging a cord into an outlet
- Using a battery
- lightning



light energy

A form of energy that

- can be **seen**
- travels in a **straight line**
- move through empty space where there is no air.



thermal energy

Moving of molecules causes an object to get **hot** (release heat)

Energy you can feel

Also known as heat energy



sound energy



Energy of vibrations carried in waves by air, water, or other matter.

energy you can **hear**

Caused by vibrations (rapid back and forth movement)

