

Energy

22 November 2019 10:29

There are many types of energy store:

- Chemical energy
- Kinetic energy
- Gravitational energy
- Elastic Potential energy
- Thermal energy

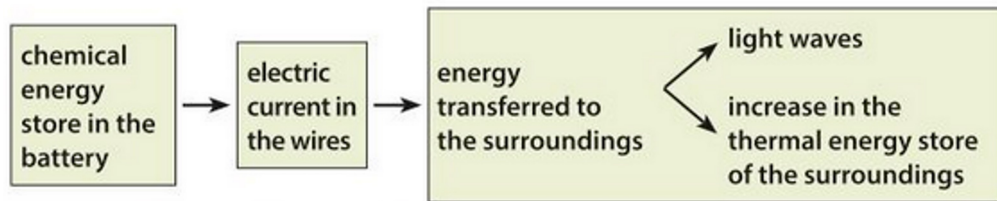


Figure 2 Changes in energy stores in a torch lamp

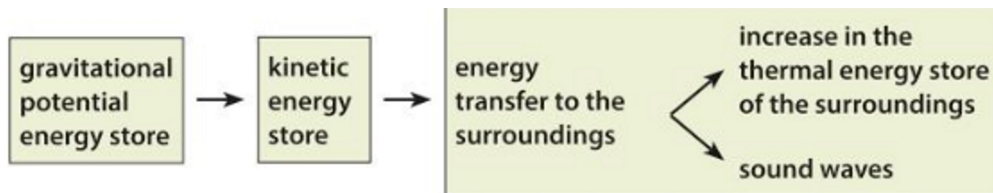


Figure 4 An energy transfer diagram for an object when it falls and when it hits the ground

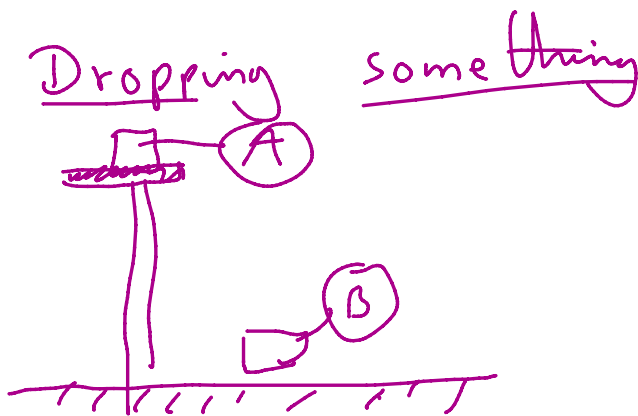
Closed Systems

A Closed System is a group of objects from which energy cannot escape.

In a closed system the total energy always remains the same - but it can move about from one type to another so the total amount of energy remains fixed.

So you have to be careful to think of all the parts of the system - eg the air surrounding a kettle will also warm up...

This leads to one of the most basic rules of Physics known as the **CONSERVATION OF ENERGY** - ie energy cannot be created or destroyed. I always feel that I want to add - 'but it can change it's type' or 'but it can move about'



mass on a table.
Discuss energy changes.