	Waves of Energy Notes
Name	
Energy -	
Work -	
	There are 9 forms of energy
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
Law of Conservation of Energy -	
Closed system -	
Open system -	
All of the 9 forms of energy are either kinetic or potential	
Kinetic energy –	
Potential energy -	

You can calculate potential energy from gravity with the following formula:

PE =

This means there are two things that affect potential energy from gravity:

Unit of energy –

Waves

Wave -

There are two main types of waves:

1. Mechanical waves -

Examples of mechanical waves -

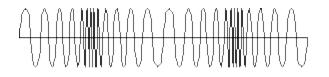
2. Electromagnetic waves -

Examples of electromagnetic waves -

Waves can be one of two types:

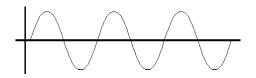
1. Longitudinal waves -

Example of a longitudinal wave -



2. Transverse waves -

Example of a transverse wave -



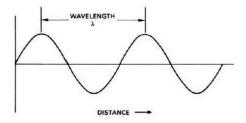
There are four ways you can describe a wave:

1. Wave speed -

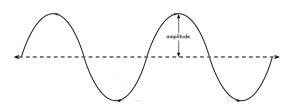
Mechanical waves get faster if ...

Electromagnetic waves all ...

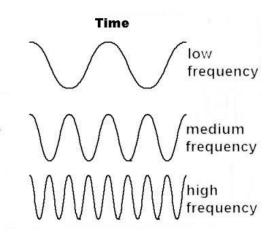
2. Wave wavelength -



3. Wave amplitude -



4. Wave frequency -



Thermal Energy

Thermal energy (heat) can travel three ways:

1. Conduction -

Example of conduction -

2. Convection -

Example of convection -

Radiation -

Example of radiation -