

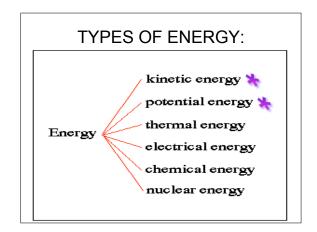
ENERGY

- <u>Law of Conservation-</u> Energy cannot be destroyed or created, just transferred.
- Gravity- dependant on mass & reference point.
 - -9.8 m/s^2

ENERGY

- The ability to create work or cause change.
- Many different types of energy.
 Potential, Kinetic, Thermal,
 Chemical





Types of Energy

KINETIC

- The energy an object has due to movement.
- Amount of energy varies due to mass & speed.

higher M or S = higher KE

 $- KE = 1/2 X M X S^{2}$

Types of Energy

POTENTIAL

Stored energy for later movement.

Amount of energy varies due to position or shape.

Higher position or more mass = higher PE

GPE = W x H



NEW FORMULA'S

- ENERGY measured in Joules
- GPE= W x H

 -Gravity = 9.8m/s²
- KE= 1/2 x Mass x Speed²



