

PHYSICS VOCABULARY # 3 DEFINED

1. **ENERGY**: THE ABILITY TO DO WORK or MOVE MATTER

2. **KINETIC ENERGY**: ENERGY OF MOTION.

$$KE = \frac{1}{2}mv^2$$

3. **POTENTIAL ENERGY**: STORED ENERGY (THAT HAS THE POTENTIAL TO DO WORK)

4. **GRAVITATION POTENTIAL ENERGY**: STORED ENERGY DUE TO GRAVITY (& OBJECTS HEIGHT).

$$PE = mgh$$

5. **CONVERSION (OF ENERGY)**: TO CHANGE FROM ONE FORM TO ANOTHER FORM OF ENERGY.

6. **LAW OF CONSERVATION OF ENERGY**: ENERGY CAN NOT BE CREATED NOR DESTROY.



7. **MECHANICAL ENERGY**: ENERGY THAT IS INVOLVED WITH MOVEMENT OR MOTION.

$$ME = KE + PE$$

8. **WORK**: FORCE APPLIED OVER A DISTANCE.

$$W = F \times D$$

9. **POWER**: WORK DIVIDED BY THE TIME IT TAKES TO DO THAT WORK. $P = W/T$

10. **ELASTIC (POTENTIAL) ENERGY**: STORED ENERGY DUE TO STRETCHING OR COMPRESSING