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Potential Energy (J) = the energy an object has due to its position, shape, condition.

Types of PE =

their own calculation equation

- Chemical PE = foods have this energy bombs, gasoline
- Elastic PE = stretched rubber band
- * Gravitational PE =
- Electric PE
- Magnetic PE

Gravitational PE = mass × free fall acceleration × height

$$PE = m \times g \times h$$

↖ 9.8

NOTE: (393) Height can be considered relative

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Kinetic Energy: the energy of a moving object due to the object's motion.

- depends on mass & velocity

$$KE = \frac{1}{2} m v^2$$

↖ velocity m/s
↖ mass (kg)

- Note: velocity plays bigger role in KE b/c it is squared

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