

CHAPTER 4

Kinetic Energy

- Kinetic E – _____
- KE = _____
- Units are:
 - _____ in kg
 - Velocity in _____

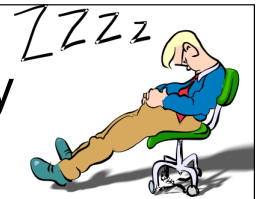


Kinetic Energy

- Determine the kinetic energy of a 625-kg roller coaster car that is moving with a speed of 18.3 m/s.

Potential Energy

- Potential E – _____
- _____ types of potential energy:
 - 1. _____ potential energy
 - 2. _____ potential energy
 - 3. _____ potential energy



Gravitational Potential Energy

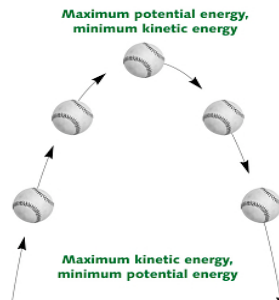
- GPE = _____
- GPE = _____
- GPE in _____
- Mass in _____
- Height in _____

Gravitational Potential Energy

- A 0.06kg ball starts to fall from a height of 2.9m. How much gravitational potential energy does the ball have at that height?

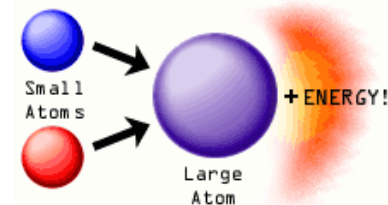
Law of Conservation of Energy

- Energy can be _____ back and forth between _____ and _____
- Law of conservation of E - _____



Fission vs. Fusion

Nuclear Fusion



- Nuclear fission – _____

- Nuclear fusion – _____

- Ex: how the sun heats the earth