

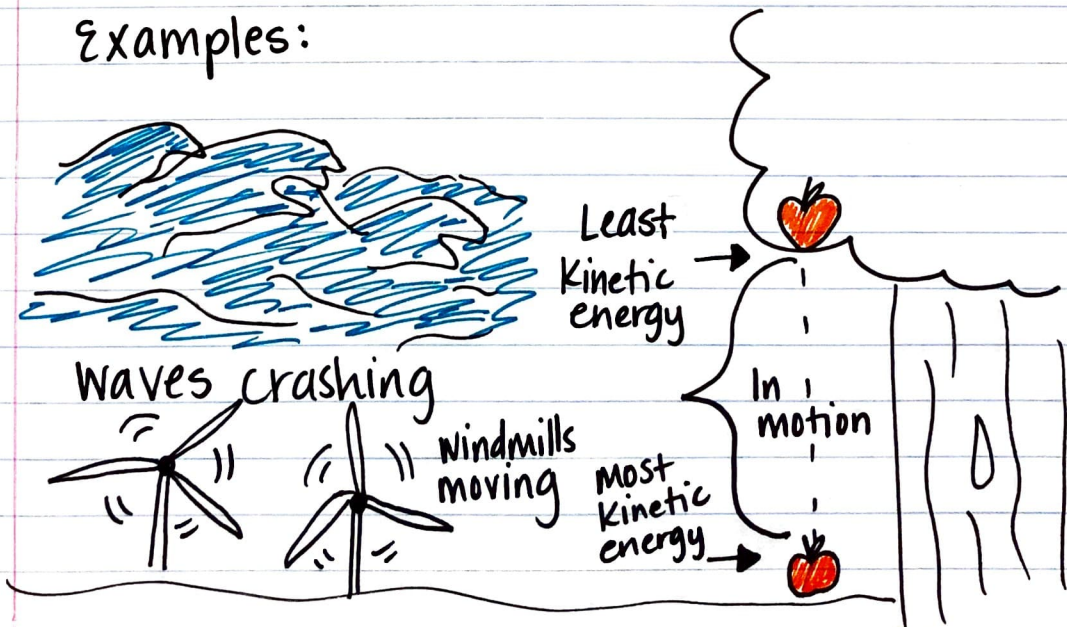
Potential & Kinetic Energy

Law of Conservation of Energy -
ENERGY **CANNOT** be **created** or **destroyed**; it is transformed.



- Energy in motion (moving)
- the greater the speed, the greater the kinetic energy.

Examples:



POTENTIAL Energy

Most
potential
energy

Least
potential
energy



- Stored energy in a system
- Gravitational Potential Energy -
 - ~ potential energy due to an object's position.
 - ~ The greater the height above ground, the greater the potential energy.

Spring



- Elastic Potential Energy -
 - ~ potential energy due to compression or expansion



- Chemical Potential Energy -
 - ~ potential energy stored in chemical bonds.



- Both potential & kinetic energy - the greater the mass, the greater the energy
- Total Energy = Potential + Kinetic
(add)