

Work (W)

$$W = (\text{mass}) * (\text{acceleration}) * (\text{displacement})$$

$$W = (\text{force}) * (\text{displacement})$$

# Mechanical Energy

## Energy of Motion or position

Short name	Name	Description	How to identify it.
KE	Kinetic Energy	Energy of Motion	Is it moving?
GPE	Gravitational Potential Energy	Energy of Height	Does it have height above the ground?
EPE	Elastic Potential Energy	Energy of Springy-ness	Is it springy and stretched or compressed?

# Non-Mechanical Energy

Name	Description	How to identify it.
Thermal Energy	Energy of Heat	Is something heating up in some way?
Chemical Energy	Energy stored in chemicals	Will the chemicals produce some kind of energy?
Electrical Energy	Energy of electricity	Is there electricity flowing through the system?
Vibrational Energy	Energy of vibrations	Is something vibrating, like air, or water?
Radiant Energy (Light)	Energy of Electromagnetic Waves (Light)	Is something emitting light? Provided primarily by the Sun.

A person has a slingshot and fires it. What form(s) of energy were present...

When the slingshot was wound up?



**Elastic Potential Energy**

What did these forms of energy did they turn into after the slingshot was released?



**Kinetic Energy**

The Demon Drop at Dorney is resting at its peak height. What form of energy is present?

**Gravitational Potential Energy**

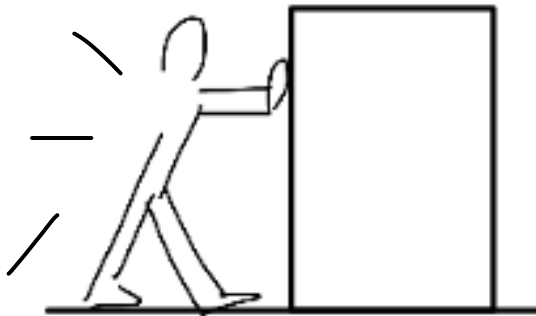


What did this form of energy turn into once the cage is dropped?

**Kinetic Energy**

The person is pushing this box along the floor. What form (s) of energy are present while the person is pushing?

**Kinetic Energy**



What did these forms of energy turn into once the person released the box and it came to a rest a few seconds after it was not being pushed?

**Thermal Energy**

