

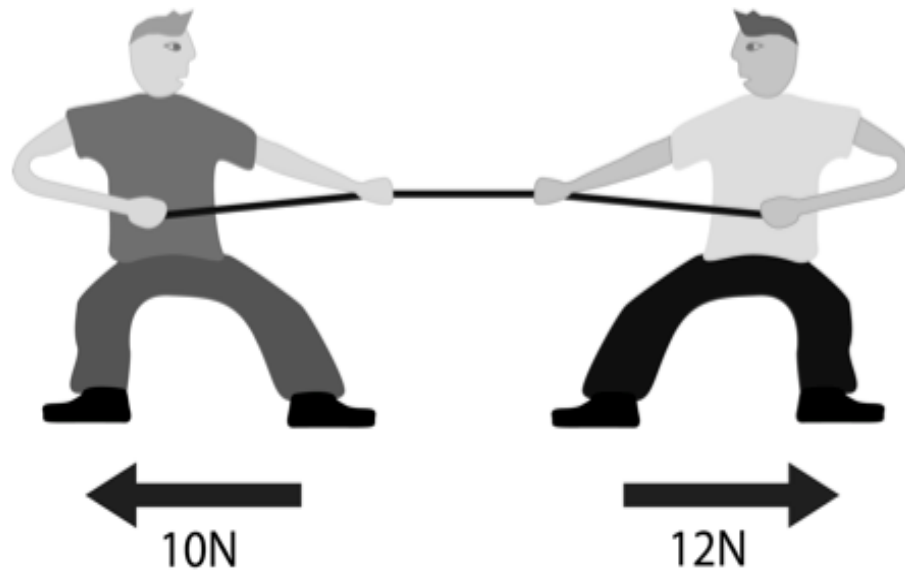


Reporting Category 2

8th Grade Science STAAR



Examine the diagram above. What is the total amount of force acting on the box and in which direction? _____N to the _____



What is the total net force and in what direction are they moving?
_____N to the _____

50N to the Left

2N to the Right

_____ is a measurement of the rate of change of position with respect to time



_____ is a change of an object's speed or direction



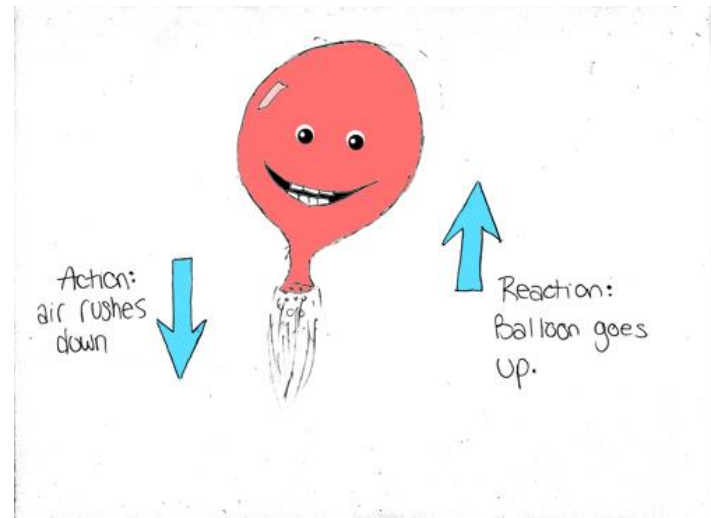
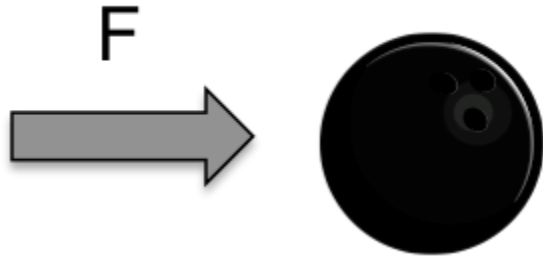
_____ is a measurement of speed and direction of an object

Speed

Acceleration

Velocity

According to Newton's law of inertia, a ball that is rolling across the ground will _____ unless there is an opposing force acting on it.



Which of Newton's Laws does the balloon represent? _____

What force needs to be applied to a 20 kg bowling ball to give it an acceleration of 5 m/s²? _____

Continue to Roll

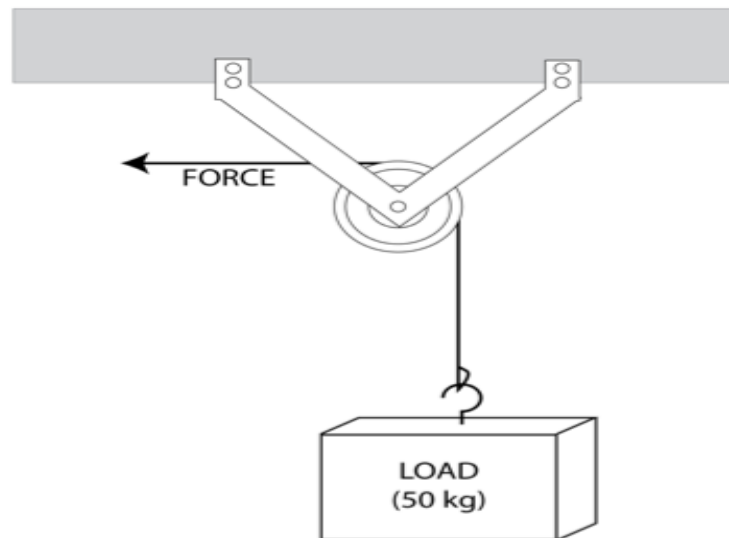
3rd

100N

A boy pulls on his dog's leash, but the dog does not move. Since the dog did not move _____ work was done on the dog.

The goal of a simple machine is to reduce the amount of _____ needed to move an object.

Look at the picture of the pulley lifting a 50 kg load. If a force is applied to the rope, then the load will move in which direction? _____



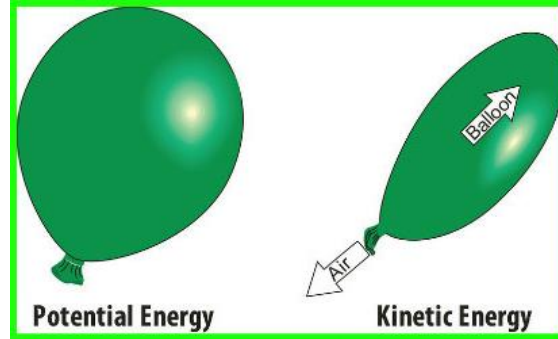
No

Force

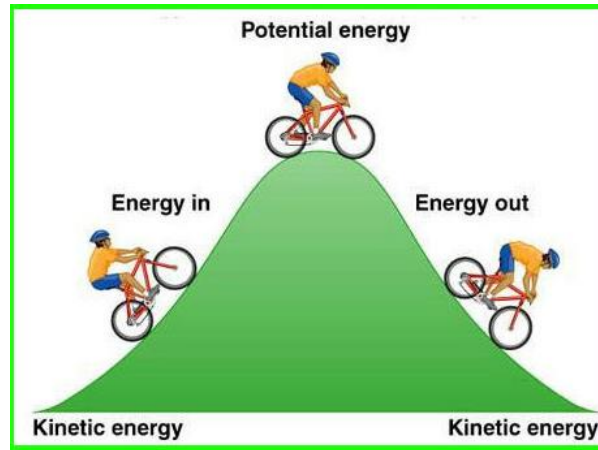
Up



_____ energy is energy that is stored waiting to be released.



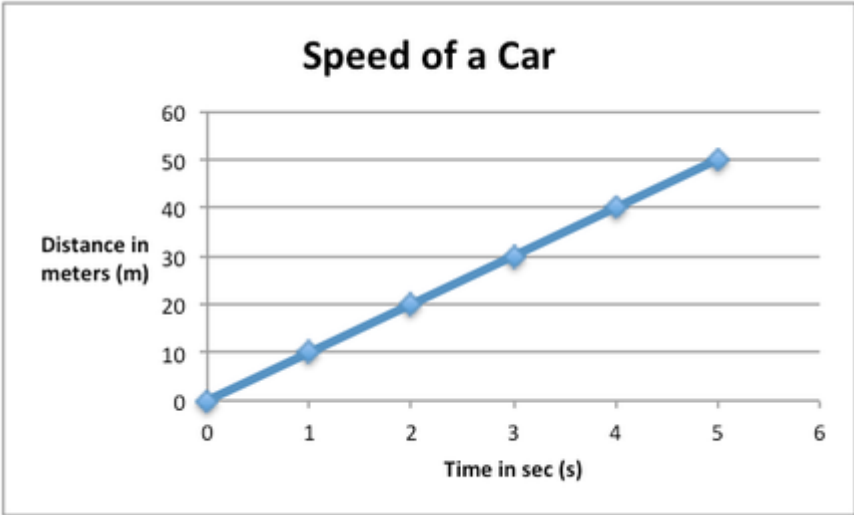
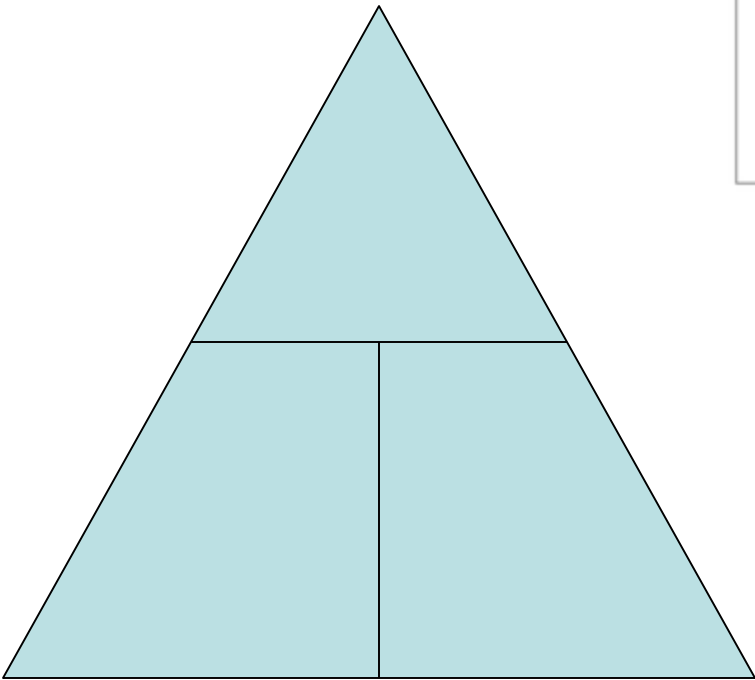
_____ energy is the energy of motion.



Kinetic

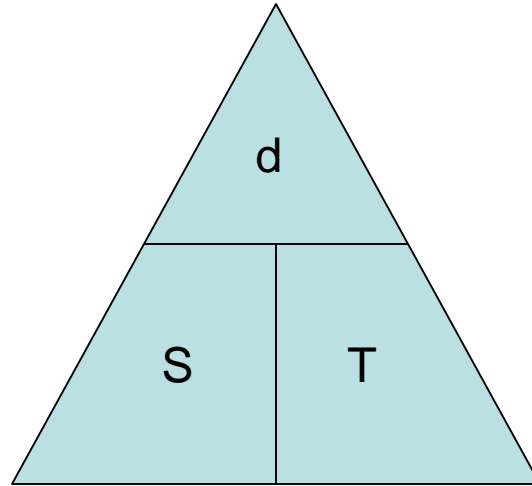
Potential

$$\underline{\hspace{2cm}} = \frac{d}{t}$$



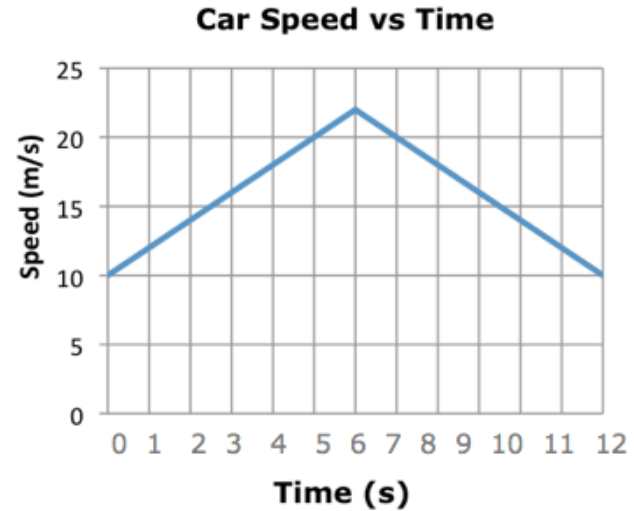
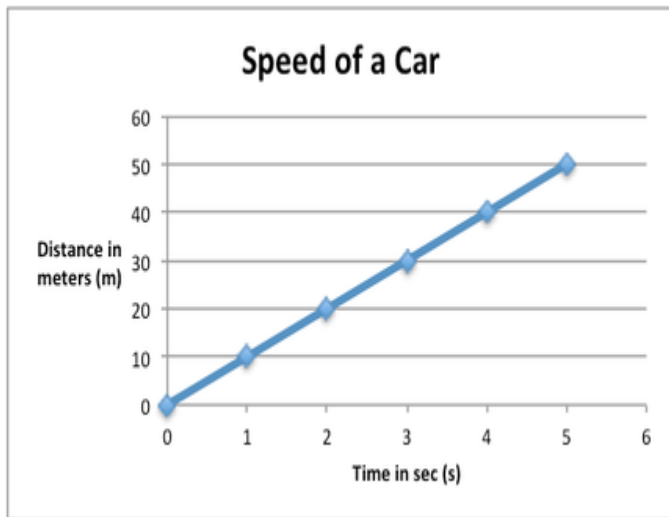
To calculate speed you have to know _____ and time.

Speed



Distance

Look at the graph of the speed of a car over time and distance.
Judging by the graph, the speed of the car can be said to be: _____



What is the motion of the car in the graph above?

The car is _____ and then _____.

Constant

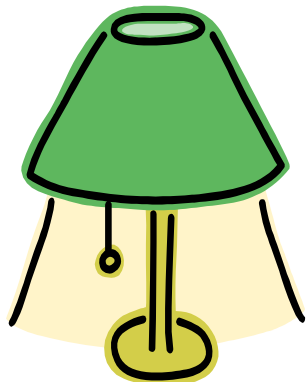
Accelerating

Decelerating



Which kind of energy change occurs when a match is lit?

Which of the following best describes the energy transformations that occur when a flashlight is turned on?



Which of the following energy transformations occur when a lamp switch is turned on?

Chemical to light

Chemical to electrical to light

Electrical to light