



What is Energy?



Key

I. Energy is the ability to do work. Work happens when force causes an object to change or move.

II. Kinetic energy is the energy of MOTION. All moving objects have Kinetic energy.

KINETIC energy (KE) depends on speed and force/mass. The more speed an object has the more kinetic energy it has. The more force an object has the more kinetic energy it has.

Which has more kinetic energy (KE) a car moving 50 km/hr OR a car moving 90 km/hr?

90 km/hr - objects with more speed have more KE.

Which has more kinetic energy (KE) an elephant running 3m/sec OR an ant moving running 3m/sec?

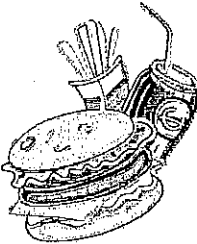




Elephant - objects with more force/mass have more KE.

III. Potential energy is the stored energy an object has because of its position.

POTENTIAL energy (PE) depends on weight & height. The more weight an object has the more PE it will have. The higher up an object is, the more PE it will have.

Which object has more PE in each example and why?

1. A roller coaster at the TOP of a hill because higher objects have more P.E.
2. A Bowling ball because objects with more weight have more P.E.

<p>K or P</p> 	<p>K or P</p> 	<p>K or P</p> 
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