

Kinetic Energy

Definition: Energy is _____.

The amount of energy in a moving object depends upon

_____.

The _____ an object moves, _____

_____.

Mass also affects kinetic energy. The _____

an object has, the _____

it has.

Imagine that you are on a beach and you have just built a sandcastle. If a beach ball rolls over and hits your sand castle, what do you think would happen? _____

_____.

What do you think would happen if a basketball, rolling at the same speed as the beach ball, hit your sand castle? _____

_____.

Why? _____

_____.

Like all forms of energy, kinetic energy can _____

_____.

Examples of windmill and hitting a drum, use graphics

Kinetic energy can also change into **thermal energy**.

Let's do the rub hands together test.

An **increase** in thermal energy **increases temperature**.

Science journal writing: Think of examples you see at school of kinetic energy.

What determines how much kinetic energy a moving object has?

Which has more kinetic energy, a horse that is walking or the same horse that is galloping? Why?

You roll a ball across a carpeted floor. What are two ways that you could increase the amount of kinetic energy in the ball?
