

# Force and Motion

Science

Grade: MS/Junior HS

**I have...**  
acceleration.

**I have...**  
energy.

**I have...**  
force.

**Who has...**  
what the ability to do work is called?

**Who has...**  
a push or pull exerted on an object?

**Who has...**  
a place or object that can be used to determine if an object is in motion?

**I have...**  
reference point.

**I have...**  
the formula for force.

**I have...**  
motion.

**I have...**  
there is an equal and opposite reaction.

**Who has...**  
what mass multiplied by acceleration equals?

**Who has...**  
an object is in motion when its distance from another object is changing?

**Who has...**  
the rest of this phrase - "For every action...."

**Who has...**  
the formula for speed?

**I have...**  
speed equals distance divided by time.

**I have...**  
speed.

**I have...**  
the formula for mass.

**I have...**  
Newton's 2nd Law Of Motion.

**Who has...**  
the distance an object travels divided by the time it takes to travel that distance?

**Who has...**  
what force divided by acceleration equals?

**Who has...**  
what states that the force on an object is equal to the mass of the object multiplied by the acceleration?

**Who has...**  
what states that an object at rest will stay at rest, and an object that is moving will continue to move, unless acted on by an outside force?

**I have...**  
Newton's 1st Law Of Motion.

**I have...**  
a rock or rollercoaster going down a hill.

**I have...**  
balanced.

**I have...**  
both the size of the force and the mass of the object.

**Who has...**  
an example of kinetic energy?

**Who has...**  
what type of force does not change an object's motion?

**Who has...**  
what affects an object's acceleration?

**Who has...**  
what states that if one object exerts a force on the second object, the second object exerts a force of equal strength in the opposite direction?

**I have...**

Newton's 3rd Law Of Motion.

**I have...**

distance equals speed multiplied by time.

**I have...**

velocity.

**I have...**

unbalanced forces.

**Who has...**

the formula for distance?

**Who has...**

the speed of an object moving in a particular direction?

**Who has...**

what type of force can change an object's motion?

**Who has...**

the formula for time?

**I have...**

time equals distance divided by speed.

**I have...**

potential energy.

**I have...**

work.

**I have...**

the formula for acceleration.

**Who has...**

what stored energy is called?

**Who has...**

what the transfer of energy is called?

**Who has...**

what force divided by mass equals?

**Who has...**

an example of potential energy?

**I have...**

a rock at the top of a hill.

**I have...**

when you exert a force on an object that causes the object to move.

**I have...**

balanced forces.

**I have...**

kinetic energy.

**Who has...**

the definition of work?

**Who has...**

equal forces that act on an object in opposite directions, are called?

**Who has...**

what the energy of moving objects is called?

**Who has...**

the rate at which the velocity or speed of an object changes, or a change of direction?

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