

Force & Motion

Study Guide & Review Worksheets

Force & Motion

Terms to Know

- **Energy:** Energy. The energy of motion.
- **Motion:** The direction and speed of an object.
- **Speed:** How fast an object is moving.
- **Force:** A push or pull that causes an object to move, stop, or change directions.
- **Friction:** A force that opposes the motion of an object.
- **Mass:** The amount of matter an object contains.

Energy Transfer

When objects collide, the energy from one object transfers to another object. That transfer in energy can change an object's **speed or direction**.

Example:

A soccer ball is rolling slowly down the field. A boy kicks the ball. The ball begins moving more quickly and in the opposite direction. Energy was transferred to the ball, causing it to change speed and direction.



Friction

Friction is a force that opposes the motion of an object. Friction makes an object slow down.

Example:

A hockey puck is sliding across ice. As it rubs against the ice, it creates friction. The friction causes the puck to slow down until it stops.



Laws of Motion

The Laws of Motion tell us:

- An object at rest remains at rest unless acted on by a force.
- An object in motion remains in motion unless acted on by a force.

Example:

A suitcase is not moving. It will remain at rest until someone pulls the handle, causing it to move.



Mass and Force

Mass affects the motion of an object when a force is applied.

Objects that have the same mass:
The greater the force, the greater the change in motion.

Objects that have different mass:
The more massive an object, the less effect a given force will have on that object.

Example:

An empty shopping cart is easy to push. As you fill the shopping cart, more force is needed to push it.



Name _____

Force & Motion

1. What is a force? Give two examples.
2. Louis is playing baseball with his brother. When he hits the baseball, it has kinetic energy. Explain.
3. Fione rolled a skateboard down the street. The skateboard slowed down and stopped. Explain.
4. Cassandra and her friend are moving boxes. Cassandra moved the first box by herself. Her friend moved the second box together with her. Explain.
5. Theorem is riding a bicycle. As he pedals, the bicycle moves forward. Explain.

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with toy cars. Owen rolls a red car into the blue car. What will happen when it is struck by the blue car?

the following three surfaces: marble, sidewalk, and grass. She uses the same amount of force to push the object across each surface. List the surfaces in order from fastest to the slowest.

is wagon. One of the kids decides he wants to push the wagon. How will this change the amount of force needed? Explain your answer.

the hose is turned on, the fireman gets pushed back. Explain.

has a 13-pound ball and an 8-pound ball. Which ball is easier to roll? Explain your answer.

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PT Brinkman

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