



Name: \_\_\_\_\_ Class: \_\_\_\_\_

## Forces and motion activity

- Newton's 3rd law of motion states that for every \_\_\_\_\_ there is an equal and opposite \_\_\_\_\_.  
friction    weight    action    gravity    reaction
- \_\_\_\_\_ is a change in position of an object with respect to time.  
a. friction      c. gravity  
b. weight      d. motion
- A \_\_\_\_\_ is any interaction that, when unopposed, will change the motion of an object.  
a. force      c. gravity  
b. mass      d. motion
- \_\_\_\_\_ is a force that resists motion created by objects rubbing together.  
a. magnetism    c. acceleration  
b. mass      d. friction
- \_\_\_\_\_ established three laws related to motion.  
a. Micheal Jackson      c. Albert Einstein  
b. Sir Isaac Newton      d. Sir Alex Ferguson
- Energy of motion is also known as \_\_\_\_\_ energy.  
a. kinetic      c. tension  
b. magnetic      d. friction
- \_\_\_\_\_ is the tendency for an object at rest to stay at rest and an object in motion to stay in motion with the same speed and in the same direction unless acted upon by an unbalanced force.  
a. Speed      c. Inertia  
b. Potential      d. Volume
- A mother takes her son out to a park in a stroller. She pushes the stroller while walking. What is the direction of the push ?  
a. away from her hands    c. toward her hands
- A truck has a cart attached to it. A force from the truck pulls the cart forward. What is the direction of the pull ?  
a. away from truck      c. toward the truck
- Two students are given two magnets. They place one magnet on a table and bring the other one close to it. It pushes the magnet on the table away. What is the direction of the push ?  
a. away from the magnet    c. toward the magnet

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