



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

### Match each of the following terms to its definition:

Inertia

Gear

Motion

Newton's Third Law of Motion

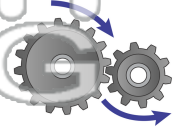
Newton's First Law of Motion

Force

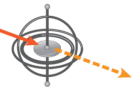
Work

Newton's Second Law of Motion

1. \_\_\_\_\_ - a simple machine that is made of two wheels that have notches that fit together either directly or by a chain or belt which allows one wheel to turn the other wheel.



2. \_\_\_\_\_ - the tendency of an object to resist change once it is in motion; a property of matter referring to the way an object remains at rest and does



3. \_\_\_\_\_ movement



4. \_\_\_\_\_ the ability



5. \_\_\_\_\_ motion to direction



6. \_\_\_\_\_ - the force of an object is equal to its mass times its acceleration

$$a = \frac{F}{m} \text{ or } F = m \times a$$



7. \_\_\_\_\_ - for every action there is an equal and opposite reaction



8. \_\_\_\_\_ - a push or pull upon an object that causes it to change speed or direction



**PREVIEW**

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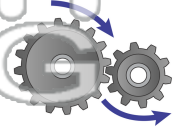
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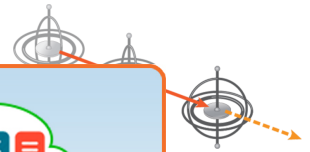
Work

Newton's Second Law of Motion

1. **gear** - a simple machine that is made of two wheels that have notches that fit together either directly or by a chain or belt which allows one wheel to turn the other wheel



2. **inertia** - the tendency of an object to resist change once it is in motion; a property of matter referring to the way an object remains at rest and doesn't move unless acted upon by an external force



3. **motion** - movement or the change in position of an object over time

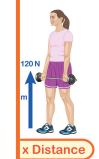


4. **work** - the energy transferred to or from an object by a force acting on it



5. **Newton's First Law of Motion** - an object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force

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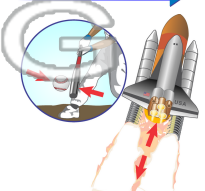
6. **Newton's Second Law of Motion** - the force on an object is equal to its mass times its acceleration



$$a = \frac{F}{m} \text{ or } F = m \times a$$



7. **Newton's Third Law of Motion** - for every action there is an equal and opposite reaction



8. **force** - a push or pull upon an object that causes it to change speed or direction

