## THOROUGHBRED ENERGY, MOTION, AND MOVEMENT



## **Newton's first law of motion**

(the law of inertia)

An object at rest will remain at rest, and an object in motion will continue in motion at constant velocity (the same direction and speed) unless acted upon by an unbalanced force.

## Newton's second law of motion

(the law of acceleration)

The acceleration of an object depends on the mass of the object and the force applied to it.

## Newton's third law of motion

(action and reaction)

For every action, there is an equal and opposite reaction.





