

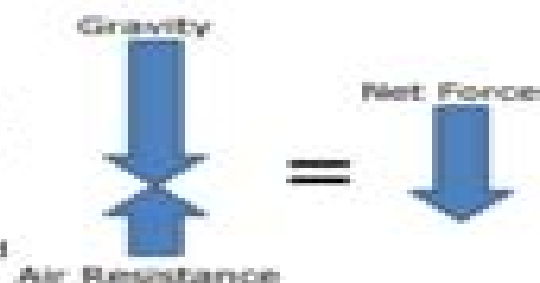
STAAR Science Tutorial 26

TEK 8.6A: Unbalanced Forces

TEK 8.6A: *Demonstrate and calculate how unbalanced forces change the speed or direction of an object's motion.*

- On Earth, it is rare for only one force to act upon an object. All objects are pulled towards the center of the Earth by gravity, a long-range attractive force between any two objects with mass. (See Tutorial 33.) If the object is falling (accelerating) towards the center of Earth because of gravity, that motion will be slowed by **air resistance**, the force of air molecules pushing back against the falling motion. The object falls because the force of gravity is stronger than the opposing force of air resistance. That sum of all forces acting on the object is called the **net force**.

- Unbalanced forces** exist on an object when the net force acting on that object is greater than zero. In the above example, gravity pulls down more strongly than the air resistance pushes back. The two forces can be represented by arrows, as shown to the right. The size of the arrows represent the relative strength of the two forces. The larger down arrow represents gravity, and the smaller up arrow represents air resistance. By subtracting the down arrow length from the up arrow length, the net force arrow shows the smaller downward acting force.



- Newton's Second Law of Motion states that an object acted on by an unbalanced force will accelerate in the direction of the force. In the above example, the object falls because the net force is downward and is greater than zero.

- Balanced forces** exist when all of the forces acting on an object cancel each other out, resulting in a net force of zero. If the object pulled down by gravity is resting on the ground, which is strong enough to push up with equal force, the two forces cancel each other out, and no motion results. In the diagram to the right, the down arrow (gravity) and the up arrow (ground support) are of equal length but opposite direction. If the net force is zero, the forces are balanced, and no acceleration (change of motion) occurs.



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