

Forces & Motion

What is force?

Scientists define **force** as a **push** or a **pull**. A force is described by its strength and direction in which it exerts. A force provides an object with the energy to move, stop moving, or change direction. **Newton (N)** is the standard unit of measure for force.



Newton's Laws of Motion

The scientist we usually think of when we talk about gravity and falling objects is **Isaac Newton**. Newton is credited with the development of three laws dealing with the movement of objects.

Newton's First Law of Motion

An object at rest tends to stay at rest and an object in motion tends to stay in motion at the same speed and in the same direction unless a force acts on it.



Newton's Second Law of Motion

Acceleration is produced when a force acts on an object. Acceleration of an object depends on its mass and the amount of force applied.

The relationship of **acceleration (a)** to **mass (m)** and **force (F)** can be expressed in mathematical terms as follows:

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

When the same force is applied to both carts, the acceleration of the empty cart will be greater than the acceleration of the loaded cart.



Newton's Third Law of Motion

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



Gravity & Motion

Gravity is a type of force that pulls objects towards each other and toward the Earth. The amount of gravitational force depends upon the **mass** of the objects and the **distance** between them.

The **acceleration** of an object near the surface of the Earth due to gravity is 9.8 m/s^2 . If both the acorn and leaf fall from the tree at the same time, air resistance will slow down the leaf and the acorn will hit the ground first. In a **vacuum**, both will reach the ground at the same time.



Newton's Second Law & Gravity

All objects in the universe apply a **gravitational force** (force of attraction) on other objects. The strength of the gravitational force is dependent upon the mass of the objects and the distance between them. The larger the mass of the objects, the larger is the force between the two objects. The farther away the two objects are, the weaker the gravitational force is between them.



All objects fall to Earth with the same acceleration.

The large gravitational force on the watermelon is offset by its large mass.

Momentum

The amount of motion that takes place is **momentum**. To calculate momentum you multiply the mass of an object by its velocity. Since velocity is involved, this means that momentum is affected not only by the mass and speed of an object but also by the direction the object is moving. When groups of objects are involved, if there is no outside force, the total momentum of the group does not change. For example, in a collision between two cars, momentum may be transferred from one car to the other but not lost. This is referred to as the **Law of Conservation of Momentum**.



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