

STAAR Science Tutorial 25

TEK 8.6C: Newton's Laws

TEK 8.6C: *Investigate and describe applications of Newton's law of inertia, law of force and acceleration, and law of action-reaction such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches.*

- **Isaac Newton** is regarded as one of the most important scientists in human history. His book titled "Mathematical Principles of Natural Philosophy", worked out at the height of the black plague in Europe and first published in 1687, laid the foundations for classical physics, including his laws of motion and law of universal gravitation. Almost all of the concepts described below remain unchanged since their discovery over 300 years ago.
- A **force** is a push or a pull. Forces can either be **contact forces**, such as the collision between two balls on a pool table, or **long-range forces** such as gravity or magnetism, which exert a force without contact. The unit for force in the metric system is the **newton (N)**, which is the force needed to accelerate a mass of one kilogram by one meter per second squared (m/s^2). In the American system, one newton is equal to the force needed to lift an object weighing about 0.225 pounds. To convert newtons into pounds, divide the force in newtons by 0.225.
- In studying Newton's Laws of Motion, do not try to memorize the exact words of the law. In fact, most textbooks state the law slightly differently from one another, and none state the law exactly as Newton did (in Latin), though each version means the same thing. Instead, try to understand the laws conceptually, by the way that objects respond to force.
- **Newton's First Law of Motion**, sometimes called the **law of inertia**, states that:

An object at rest will stay at rest, and an object in motion will stay in motion with constant velocity, unless acted on by an unbalanced force.

On Earth, we are used to all moving objects slowing down and eventually stopping. The law's first part stating that "objects at rest stay at rest" fits our experience on Earth, because objects only move when some force moves them. Before Newton, scientists believed that all objects came to rest naturally. The second part of the law stating that "an object in motion will stay in motion with constant velocity" is much harder to see on Earth, where every moving object eventually stops moving. The property of inertia, along with the forces of friction and air resistance, explain why Newton's first law is really true.

- **Inertia** is the measure of an object's tendency to resist a change in motion; it is directly proportional to the object's mass. In other words, the greater the

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