



Gravity

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. The amount of gravitational force depends upon the mass of the objects. The amount of gravitational force depends upon the mass of the objects. The amount of gravitational force depends upon the mass of the objects.



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Lesson Checkpoint: What is the definition of weight?

Newton's Laws

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, simply phrased, is that an object that is at rest will remain at rest and that an object in motion will continue in motion. This is only true, of course, until another force acts to either move or stop the object. The resistance to this force is referred to as **inertia**.

A good example of this is the difficulty you have trying to stop a moving object once it gets going.



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Lesson Checkpoint:
State one of Newton's Laws and give an example of it in action.

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.

Lesson Checkpoint:

What are the two attributes of an object used to



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