

Conceptual Physics POGIL: Universal Gravitational

We have learned about weight as the gravitational force exerted on you by the planet you're standing on, usually the Earth. But gravity is a force exerted by *all* masses on each other, not just you and the Earth. In this sense, we say that the gravitational force is *universal*. In this POGIL we will learn about what influences the magnitude of the gravitational force.

Newton's Law of Universal Gravitation

All masses in the universe are attracted to each other by a gravitational force: planets, stars, people, doughnuts...everything that has mass. In the diagram below, we see two masses, labeled m_1 and m_2 , separated by a distance d .



The gravitational force between the two masses is always attractive...just like love.

The magnitude of the gravitational force F between two masses is directly proportional to the product of the masses m_1 and m_2 and inversely proportional to the square of the distance d between the masses. This relationship is summed up by the equation

$$F = G \frac{m_1 m_2}{d^2}.$$

G is a constant of proportionality, called the Universal Gravitational Constant, equal to $6.67 \times 10^{-11} \text{ N} \cdot \text{m}^2/\text{kg}^2$. This equation is known as Newton's Law of Universal Gravitation. It was discovered by the same Newton who gave us our trusty three laws of motion.

1. The diagram below shows a 10 kg mass and a 70 kg mass separated by a distance of 1 m.



- (a) On each mass above, draw arrows indicating the direction of the force on each mass.
 - Arrows should be drawn towards the other mass equal in length
- (b) Determine the magnitude of the gravitational force on the 10 kg mass.
 - $F = 4.7 \times 10^{-7} \text{ N}$
- (c) Determine the magnitude of the gravitational force on the 70 kg mass.
 - $F = 4.7 \times 10^{-7} \text{ N}$
- (d) Which mass exerts the greater gravitational force on the other? Why is this so?
 - According to Newton's 3rd Law, they exert the same force on each other.

Conceptual Physics Pogil Universal Gravitational

Louis Girifalco



Conceptual Physics Pogil Universal Gravitational:

The Universal Force Louis Girifalco, 2008 This book describes the growth of our understanding of gravity and the science on which it is based from the early Greeks to Einstein's grand insights of curved space time Showing that science searches for the ultimate roots of natural phenomena and therefore pursues a kind of mysticism the mysteries it unfolds are strange and enthralling

Gravity and Gravitation Kurtus Ron, 2011-07 Gravity and Gravitation is a physics book that is written in a form that is easy to understand for high school and beginning college students as well as science buffs It is based on the lessons from the School for Champions educational website The book explains the principles of gravity and gravitation shows derivations of important gravity equations and provides applications of those equations It also compares the different theories of gravitation from those of Newton to Einstein to present day concepts

Gravitational Theory Edited by Paul F. Kisak, 2015-12-25 Gravity or gravitation is a natural phenomenon by which all things with mass are brought towards or gravitate towards one another including stars planets galaxies and even light and sub atomic particles Gravity is responsible for the complexity in the universe by creating spheres of hydrogen where hydrogen fuses under pressure to form stars and grouping them into galaxies Without gravity the universe would be an uncomplicated one existing without thermal energy and composed only of equally spaced particles On Earth gravity gives weight to physical objects and causes the tides Gravity has an infinite range and it cannot be absorbed transformed or shielded against Gravity is most accurately described by the general theory of relativity proposed by Albert Einstein in 1915 which describes gravity not as a force but as a consequence of the curvature of space time caused by the uneven distribution of mass energy and resulting in time dilation where time lapses more slowly in strong gravitation However for most applications gravity is well approximated by Newton's law of universal gravitation which postulates that gravity is a force where two bodies of mass are directly drawn or attracted to each other according to a mathematical relationship where the attractive force is proportional to the product of their masses and inversely proportional to the square of the distance between them This is considered to occur over an infinite range such that all bodies with mass in the universe are drawn to each other no matter how far they are apart This book describes the force of gravity and the various laws and theories used to model the gravitational force

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