

Universal Gravitation

READ

The law of universal gravitation allows you to calculate the gravitational force between two objects from their masses and the distance between them. The law includes a value called the gravitational constant, or “G.” This value is the same everywhere in the universe. Calculating the force between small objects like grapefruits or huge objects like planets, moons, and stars is possible using this law.

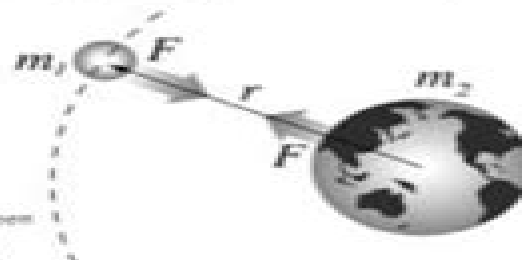
What is the law of universal gravitation?

The force between two masses m_1 and m_2 that are separated by a distance r is given by:

Law of universal gravitation

$$\text{Force (N)} \quad F = G \frac{m_1 m_2}{r^2}$$

Mass 1, Mass 2 (kg)
 Gravitational Constant
 ($6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$)
 Distance between masses (m)



So, when the masses m_1 and m_2 are given in kilograms and the distance r is given in meters, the force has the unit of newtons. Remember that the distance r corresponds to the distance between the center of gravity of the two objects.



For example, the gravitational force between two spheres that are touching each other, each with a radius of 0.3 meter and a mass of 1,000 kilograms, is given by:

$$F = 6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2 \frac{1,000 \text{ kg} \times 1,000 \text{ kg}}{(0.3 \text{ m} + 0.3 \text{ m})^2} = 0.000185 \text{ N}$$

Note: A small car has a mass of approximately 1,000 kilograms. Try to visualize this much mass compressed into a sphere with a diameter of 0.3 meters (30 centimeters). If two such spheres were touching one another, the gravitational force between them would be only 0.000185 newtons. On Earth, this corresponds to the weight of a mass equal to only 18.9 milligrams. The gravitational force is not very strong!

Law Of Universal Gravitation Answer Key

Minjie Lin



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