

Gravitational Force and Orbits

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Part I – Gravity Force Lab: Basics

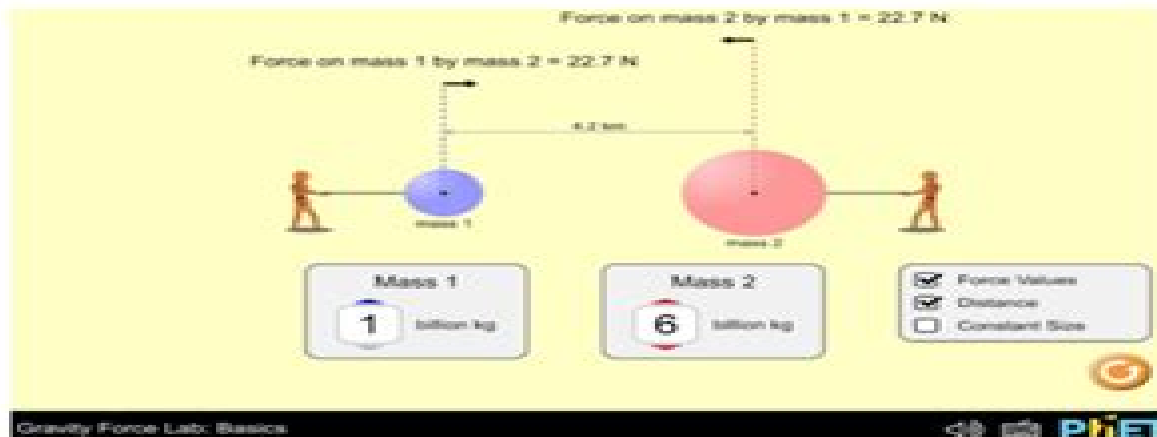
Use the relationship for The Law of Universal Gravitation and the PhET simulation, Gravity Force Lab: Basics

to determine the Universal Gravitational Constant, G.

$$F_g = \frac{G m_1 m_2}{r^2}$$

and compare to the published value.

Note: Billion Kg = 1×10^9 Kg and 1 Km = 1,000 m. Make sure all of your base units are m for distance and Kg for mass.



Yes, we already know what this constant is, but let's see how close you can get to the known value of $6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$.

Select different masses, distances and record the force. Then calculate the average G value

Trial #	Mass 1 (billions of Kg)	Mass 2 (billions of Kg)	Distance (Km)	Force (N)	Gravitation Constant, G (Nm ² /kg ²)
1					
2					
3					
4					
5					
6					

Gravitational Force Lab Colorado Answers

Julia Schneider



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