

# Gravitational Force and Orbits

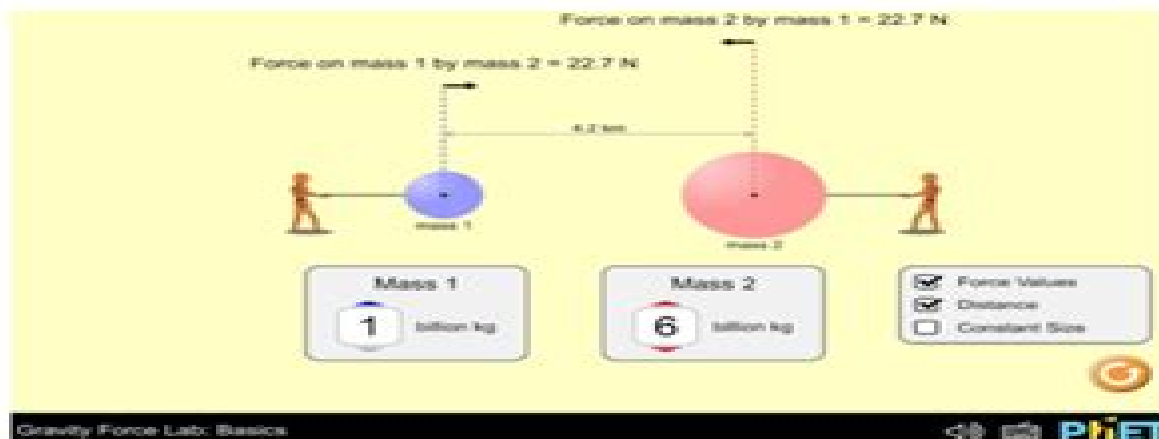
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## Part I – Gravity Force Lab: Basics

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

to determine the Universal Gravitational Constant, G.



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

and compare to the published value.

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

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

# Gravitational Force Lab Colorado Answers

**Michael Hoelscher**



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