

Gravitational Force and Orbits

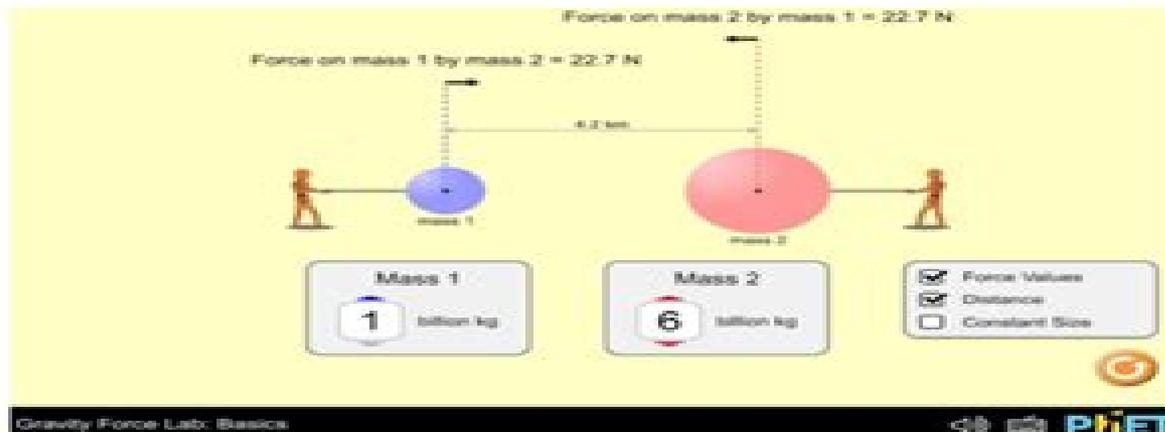
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Part I – Gravity Force Lab: Basics

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 = 1×10^9 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 (Nm^2/kg^2)
1					
2					
3					
4					
5					
6					

Gravitational Force Lab Colorado Answers

Sabine Zange



Gravitational Force Lab Colorado Answers:

New Challenges and Opportunities in Physics Education Marilena Streit-Bianchi, Marisa Michelini, Walter Bonivento, Matteo Tuveri, 2023-10-30 This book is invaluable for teachers and students in high school and junior college who struggle to understand the principles of modern physics and incorporate scientific methods in their lessons It provides interactive and multidisciplinary approaches that will help prepare present and future generations to face the technological and social challenges they will face Rather than using a unidirectional didactic approach the authors scientists philosophers communication experts science historians and science education innovators divide the book into two parts the first part Communicating Contemporary Physics examines how new physics developments affect modern culture while the second part Digital Challenges for Physics Learning covers physics education research using ICT plus the experiences of classroom teachers and a range of ideas and projects to innovate physics and STEM teaching *Student Lab Manual for Argument-Driven Inquiry in Physical Science* Jonathon Grooms, Patrick J. Enderle, Todd Hutner, Victor Sampson , 2016-10-01 Are you interested in using argument driven inquiry for middle school lab instruction but just aren't sure how to do it Argument Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away The book is a one stop source of expertise advice and investigations to help physical science students work the way scientists do Student Lab Manual for Argument Driven Inquiry in Life Science provides the student materials you need to guide your students through these investigations With lab details student handouts and safety information your students will be ready to start investigating *Argument-Driven Inquiry in Physical Science* Jonathon Grooms, Patrick J. Enderle, Todd Hutner, Ashley Murphy, Victor Sampson , 2016-10-01 Are you interested in using argument driven inquiry for middle school lab instruction but just aren't sure how to do it Argument Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away The book is a one stop source of expertise advice and investigations to help physical science students work the way scientists do The book is divided into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report revision 2 A well organized series of 22 field tested labs designed to be much more authentic for instruction than traditional laboratory activities The labs cover four core ideas in physical science matter motion and forces energy and waves Students dig into important content and learn scientific practices as they figure out everything from how thermal energy works to what could make an action figure jump higher The authors are veteran teachers who know your time constraints so they designed the book with easy to use reproducible student pages teacher notes and checkout questions The labs also support today's standards and will help your students learn the core ideas crosscutting concepts and scientific practices found in the Next Generation Science Standards In addition the authors offer ways for students to develop the disciplinary skills outlined in the

Common Core State Standards Many of today's middle school teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities Argument Driven Inquiry in Physical Science does all of this while also giving students the chance to practice reading writing speaking and using math in the context of science

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