

Why everyone in this class is attracted to everyone else.

<https://phet.colorado.edu/en/simulation/gravitic-force-lab>



OPTION A: CREATIVE COMMONS -

Adapted from Chris Bier's Collisions ~~SHXL~~ Lab  
**ATTRIBUTION**

**Introduction:**

Every object around you is attracted to you. In fact, every object in the galaxy is attracted to every other object in the galaxy. Newton postulated and Cavendish confirmed that all objects with mass are attracted to all other objects with mass by a force that is proportional to their masses and inversely proportional to the square of the distance between the objects' centers. This relationship became *Newton's Law of Universal Gravitation*. In this simulation, you will look at two massive objects and their gravitational force between them to observe *G*, the constant of universal gravity that Cavendish investigated.



Gravity Force Lab

**Important Formulas:**  $F = G \frac{m_1 m_2}{d^2}$      $F_c = ma_c$      $a_c = \frac{v^2}{r}$

**Procedure:** <https://phet.colorado.edu/en/simulation/gravty-force-lab> Run Now!

- Take some time and familiarize yourself with the simulation. Notice how forces change as mass changes and as distance changes.
- Fill out the chart below for the two objects at various distances.

1. Rearranging the equation for Force, you can CALCULATE the value of *G* using the values given below for *m*<sub>1</sub>, *m*<sub>2</sub>, and *d*, and the value for the Force that you obtain in the simulation. Record the force between the two object and then solve (calculate *G*) for the universal gravitation constant, *G* and compare it to values published in books, online, or your text book. The numbers you calculate for *G* will vary slightly from row to row. *Remember significant digits and units!!!!*

Mass Object 1	Mass Object 2	Distance	Force	Gravitation Constant <i>G</i>
50.00 kg	25.00 kg	3.0m	9.3x10 <sup>-9</sup>	6.7x10 <sup>-11</sup>
50.00 kg	25.00 kg	4.0m	5.2x10 <sup>-9</sup>	6.6x10 <sup>-11</sup>
50.00 kg	25.00 kg	5.0m	3.3x10 <sup>-9</sup>	6.6x10 <sup>-11</sup>
50.00 kg	25.00 kg	6.0m	2.3x10 <sup>-9</sup>	6.6x10 <sup>-11</sup>
50.00 kg	25.00 kg	9.0m	1.0x10 <sup>-9</sup>	6.5x10 <sup>-11</sup>

What do you notice about the force that acts on each object?  
 [Answer Here]

Average value of *G*: \_\_\_\_\_ Units of *G*: \_\_\_\_\_

Published value of *G*: \_\_\_\_\_ Source: \_\_\_\_\_

How did your average value of *G* compare to the published value for *G* that you found?

[Answer Here]

# Lab 1slinky Lab Answer Key

**Kelly Ann Coppins**



## Lab 1slinky Lab Answer Key:

**A Den of Inquiry** Tim Erickson, Bryan Cooley, 2006 *Geology From Experience* E. Kirsten Peters, Larry E. Davis, 2000-11-05 Moving away from the observation and vocabulary focus of traditional physical geology lab manuals Peters and Davis's *Geology from Experience* offers experiments that favor hands on involvement and scientific problem solving Students are asked to use geological tools and techniques analyze data from observation experiment and research solve simple equations and make assessments and relevant predictions This approach class tested with great success by the authors gives students a real taste of the scientific experience by revealing the ways geologists actually do their work

2007 Physics Education Research Conference Leon Hsu, Charles Henderson, Laura McCullough, 2007-11-26 This text brings together peer reviewed papers from the 2007 Physics Education Research Conference whose theme was Cognitive Science and Physics Education Research The conference brought together researchers studying a wide variety of topics in physics education including transfer of knowledge learning in physics courses at all levels teacher education and cross disciplinary learning This up to date text will be essential reading for anyone in physics education research Science Worksheets Don't Grow Dendrites Marcia L. Tate, Warren G. Phillips, 2010-10-20 Best selling author Marcia L Tate outlines 20 proven brain compatible strategies rationales from experts to support their effectiveness and more than 250 activities in this practical resource **Energy Research Abstracts**, 1987 *KSU Ag Report*, 2008 **UCSF Pharmacy Alumni Association Newsletter**, 2009 *Soundings*, 1994 **Middle Level SS&C Energy Series** Linda W. Crow, Bill G. Aldridge, 1995 The project on Scope Sequence and Coordination of Secondary School Science SS C was initiated by the National Science Teachers Association NSTA and recommends that all students study science every year and advocates carefully sequenced well coordinated instruction in biology chemistry earth space science and physics This document represents a collaborative effort between the NSTA the American Petroleum Institute API the California SS C Project and the Texas SS C Project These materials were developed through a brainstorming process that included industrial scientists science teachers from different SS C sites and science educators This book is divided into 3 sections Section I SS C Overview includes a description of the projects and a K 12 sequence of SS C science Section II Texas SS C Materials includes the following overview environment fueling around and a materials list Section III California SS C Materials includes overview offshore oil drilling petroleum in our daily lives oil exploration oil extraction and environment and an appendix JRH

*Spotlight Science* Lawrie Ryan, Keith Johnson, 2004 This Framework Edition Teacher Support Pack offers support and guidance **Physics Briefs**, 1993 *American Journal of Physics*, 1990 *Preservice Elementary Teachers Learning to Use Curriculum Materials to Plan and Teach Science* Kristin L. Gunckel, 2008 *The Physics Teacher*, 1970 Improving Student Achievement Through Daily Activities and Assessments in Introduction to Physics Kelly Ann Coppins, 2010 **El-Hi Textbooks and Serials in Print, 1996** R R Bowker Publishing, Bowker, 1996-02 **Essays of an Information Scientist**

Eugene Garfield,1977    **Prentice-Hall Earth Science** Charles R. Coble,1986    *INIS Atomindex* ,1987    **The  
Trademark Register of the United States** ,1970

## **Lab 1slinky Lab Answer Key** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Lab 1slinky Lab Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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