

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]

# Mymath Lab Answer Key

**Sabine Zange**



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