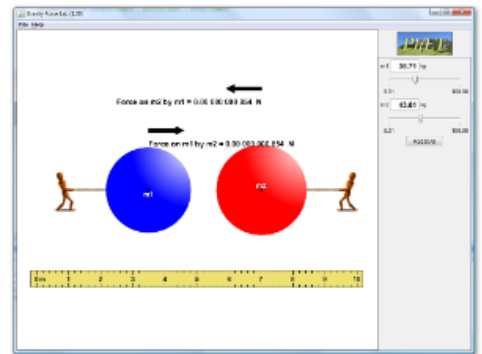


## Gravity Force Lab

Go to <http://phet.colorado.edu/en/simulation/gravity-force-lab>  
And select RUN

### Qualitative Observations

- How does the separation of the masses affect the force between them?
- What happens to the force between the objects when mass 1 is doubled?
- What happens to the force between the objects if you Cut Mass 2 in half?
- In any of the situations did the forces ever differ in magnitude? Which of Newton's Laws apply?
- In any of the situations did the forces ever not point in opposing directions?



[Download](#) 1,593 kB

[Run Now!](#)

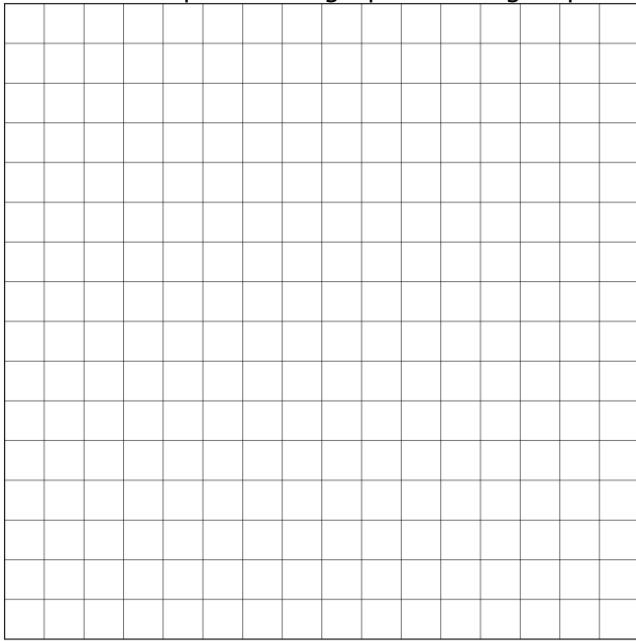
### Quantitative

It is now time to build a model.

- What THREE things can we change/vary?
- Select an independent and dependent variable and constant
  - DV \_\_\_\_\_
  - IV \_\_\_\_\_
  - C \_\_\_\_\_
- Collect 5 data points and fill in the table.

IV	DV

4. Create a qualitative graph on the grid provided.



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5. Select a new independent and dependent variable and constant

a. DV \_\_\_\_\_

b. IV \_\_\_\_\_

c. C \_\_\_\_\_

6. Collect 5 data points and fill in the table.

IV	DV

