4.4 PhET Simulation

1. Open the Gravity Force Lab PhET Simulation

● Examine the formula for the force of gravity on your equation sheet. What two things can you change in the formula that you can also change in the simulation?

      1.

      2.

2. Change each variable

● Record what happens to the gravitational force as you change each variable. Be specific and use scientific language (i.e. use terms like increase, decrease, remains constant).

    ○ As I (increased/decreased) the _____ the force _____.

    ○ As I (increased/decreased) the _____ the force _____.

Fill in the forces on the table below:

Force on m1 by m2	Force on m2 by m1	Mass 1 (kg)	Mass 2 (kg)	Distance Apart (m)
		50	200	10
		50	200	5
		200	200	5
		200	200	10
		Pick	Your own	Values

● What pattern do you see in your Table?

Type Response Here