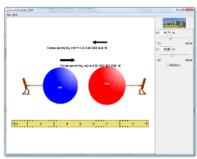
| | Name: | Period: |
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Variables of Gravity

Direction: Open the Gravity Force Lab simulation. Explore the force of gravity between the blue and red spheres by changing the variables and moving the spheres back and forth.



- In this simulation, what is the dependent variable?
 In this simulation, the dependent variable is the force (gravitational force).
- 2. In this simulation, what are the independent variables?

 In this simulation, the independent variables are the masses of the spheres and the distance between the two spheres.
- 3. What does the arrow above each sphere represent? Explain your answer.

 The arrow above each sphere represents the amount of gravitational force. The longer the arrow, the greater the force; the shorter the arrow, the smaller the force.
- 4. Explain how you can change the gravitational force between the two spheres.

 You can change the gravitational force between the two spheres by changing their masses and changing the distance between them.