

## Forces in 1D PhET Simulation Lab, rev'd 2009

Name: \_\_\_\_\_

### **Introduction:**

Newton's Laws describe motion and forces in the world around us. Objects have inertia, undergo acceleration and experience forces. Forces are measured in Newtons (N)...

Newton's First Law states:

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Newton's Second Law states:

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Newton's Third Law states: \_\_\_\_\_

When objects slide past each other in contact, friction usually plays a part. There are two types of friction, static, which exists between objects BEFORE the objects start moving and kinetic which exists between objects that ARE MOVING.

**Remember... it is not the presence of forces that cause acceleration... it is the presence of unbalanced or NET forces!**

Go to the PhET Website (just google PhET to get there). Go to the simulations, click on "motion" and find the "Forces in 1-Dimension" simulation (it may take a few moments to load).

Play with the simulation a bit to figure out how it works. Once you're comfortable with it, restore the default settings and turn off friction!!! For the first part of this activity we will not be considering friction.

Answer all questions in COMPLETE SENTENCES!

### **Part 1**

1. If you apply the same force to objects of different masses, what do you observe (provide specific data that you obtain from the graphs in the simulation)?

Object	Applied Force	Result / Observation
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

2. Describe the motion of an object while a constant force is applied using physics terms! Be sure to discuss the object's velocity and acceleration.
3. If an object is given a push, and then the force is removed, describe the motion of the object using physics terms! Be sure to discuss the object's velocity and acceleration.
4. What do you have to do to get the filing cabinet and the book to accelerate at the same rate? Take data and provide examples.



**Forces in 1 Dimension**

# Forces In 1d Phet Simulation Lab Answers

**Russell, Donna, Laffey, James M.**

### **Forces In 1d Phet Simulation Lab Answers:**

Handbook of Research on Gaming Trends in P-12 Education Russell, Donna, Laffey, James M., 2015-10-21 Gaming applications are rapidly expanding into the realm of education. Game based education creates an active and enjoyable learning environment especially for children and young adults who regularly use gaming for recreational purposes. Due to the evolving nature of education gaming provides a transformative learning experience for diverse students. The Handbook of Research on Gaming Trends in P 12 Education provides current research intended to aid educators, school administrators and game developers in teaching today's youth in a technology immersive society. This publication melds together gaming for entertainment purposes as well as gaming applied within educational settings with an emphasis on P 12 classrooms. Featuring exhaustive coverage on topics relating to virtual reality, game design, immersive learning, distance learning through 3D environments as well as best practices for gaming implementation in real world settings, this handbook of research is an essential addition to the reference collection of international academic libraries.

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