

Forces in 1D PhET Simulation Lab revd 2009

Name: _____

Background:

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:

Newton's Second Law states:

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: <http://phet.colorado.edu/en/simulation/forces-1d>

Procedure: Play with the Sims → Motion → Forces in 1 Dimension **Run Sim!**

1. the simulation between runs to reset the simulation.
2. **Slowly** drag the cabinet to the right to apply a force (blue vector). Observe the *applied force* and *friction force*.
3. Without movement, the applied force and friction forces are _____.
4. Once the cabinet starts to move, keep your mouse immobile to apply the same, constant force.

What happened? _____

5. Repeat steps 1-3, but release the mouse button once the cabinet starts to move. Without applied force, the force of friction does what? _____

6. Repeat the above experiments after clicking on , , and to show the A/V/D graphs of motion.

Draw a sketch of the acceleration, velocity, and distance graphs produced when the cabinet moves with a **constant acceleration**. *(acceleration is produced when Force applied > Force friction. This is a NET FORCE)*

Acceleration vs time



Velocity vs time



Distance vs time



- Click the *Friction* box (right side of the simulation) to remove friction.
- Drag the cabinet to apply a force for a few seconds and then release the mouse and allow the cabinet to move freely.
- Without friction, all the force applied creates acceleration.
- Without an applied force (while coasting), the acceleration becomes _____ and velocity becomes _____.



Forces in 1 Dimension



Forces In 1d Phet Simulation Lab Answ

Russell, Donna, Laffey, James M.



Forces In 1d Phet Simulation Lab Answ:

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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