

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

Puja Mehta



Forces In 1d Phet Simulation Lab Answ:

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