



## PhET: Forces and Motion Basics

Link to sim: <https://phet.colorado.edu/en/simulation/forces-and-motion-basics>

Open the simulation and press the arrow to start.

**Newton's 1st Law** is also known as the Law of Inertia. It says that objects will stay still or keep moving in the same direction and same speed until they're acted upon by an unbalanced force.

**Newton's 2nd Law** tells us that the more force is applied to an object the faster it will accelerate. It also tells us that objects with a greater mass need a greater force to be applied in order to accelerate them.

**Acceleration** is any change in motion. This means speeding up (this includes starting to move), slowing down (including stopping), or changing direction.

### Part 1: The "Motion" tab

- Click on the "Motion" option.
- Check the boxes for "Values", "Masses", and "Speed" ("Force" should already be checked)
- Use the arrows at the bottom to slowly increase the amount of force applied to the box until the box starts moving.



- How much force does it take to start moving the 50 kg box?

The force needed to move the 50 kg box is 1 Newton.

- Why do you need to apply a force in order to get the box to move?

You need to apply force to get the box moving because the box is the object at rest.

- How much force do you need to apply in order to stop the box?

The force needed to stop the motion of the box is exactly the same amount of force applied, only that it's a negative amount. Example, 1 newton to move, -1 newton to stop.

- Which of Newton's Laws does this demonstrate?

This demonstrates Newton's First Law of motion.

- How does it demonstrate that law?

This lab demonstrates Newton's First Law because the box represents the object at rest. The object at rest did not move until another force acted against it (the human figure), it also did not stop moving unless a force acted upon the box.

# Forces In 1d Phet Simulation Lab Answers

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

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