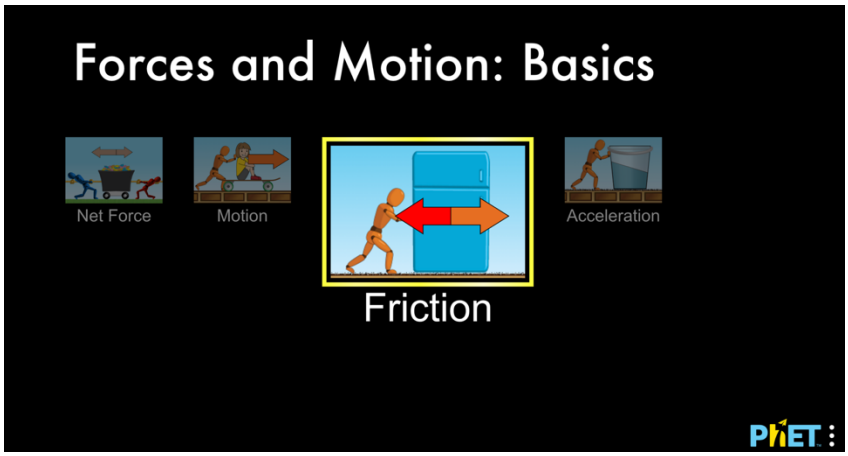
Name: _____

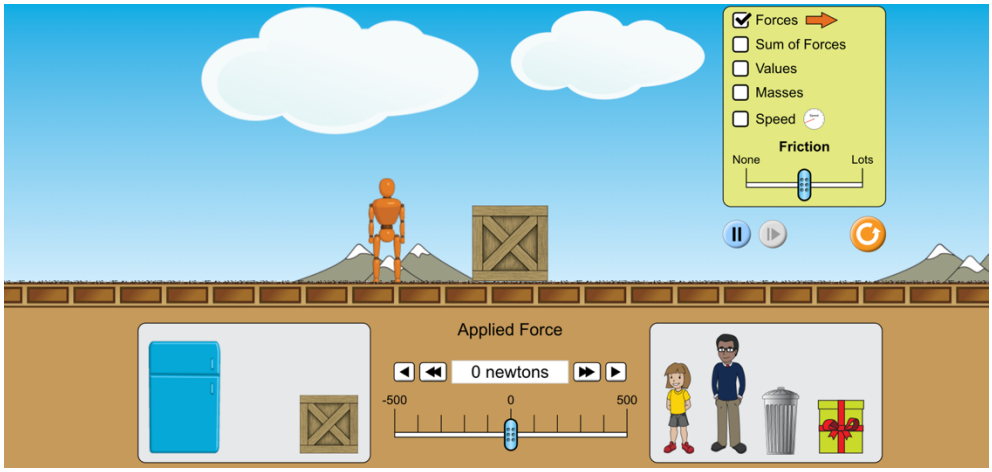
Static vs. Kinetic Friction

Go to the following website: https://phet.colorado.edu/sims/html/forces-and-motion-basics/latest/forces-and-motion-basics_all.html

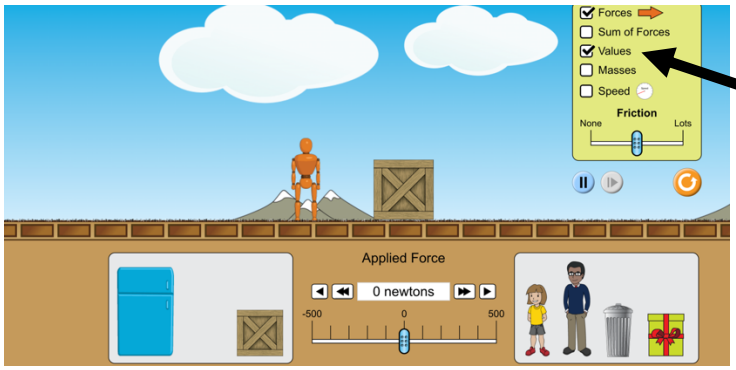
Click on the simulation that says “Friction.”



You’ll see the following page appear.



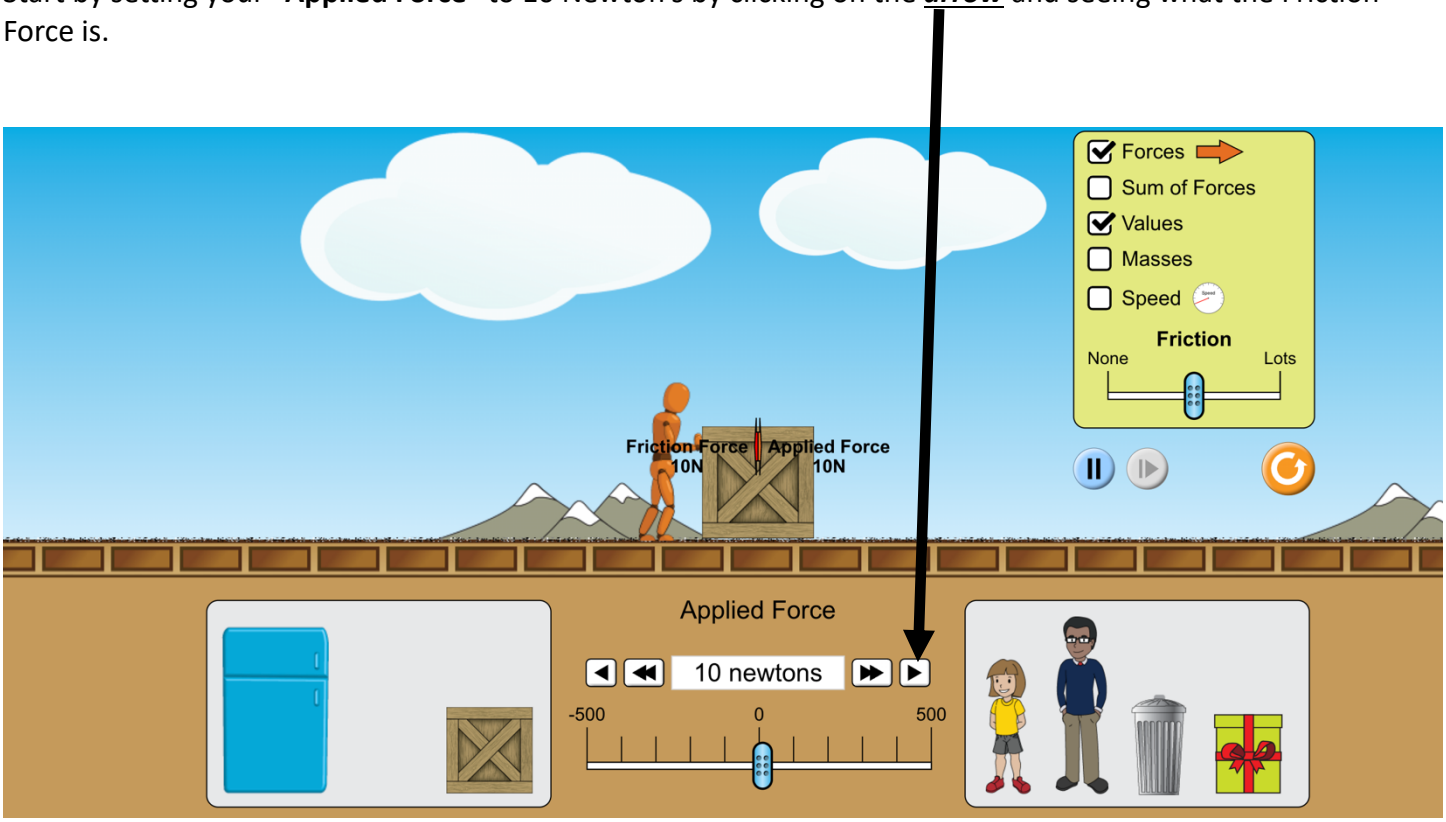
On the top right corner, check off “Values.”



Check this box.

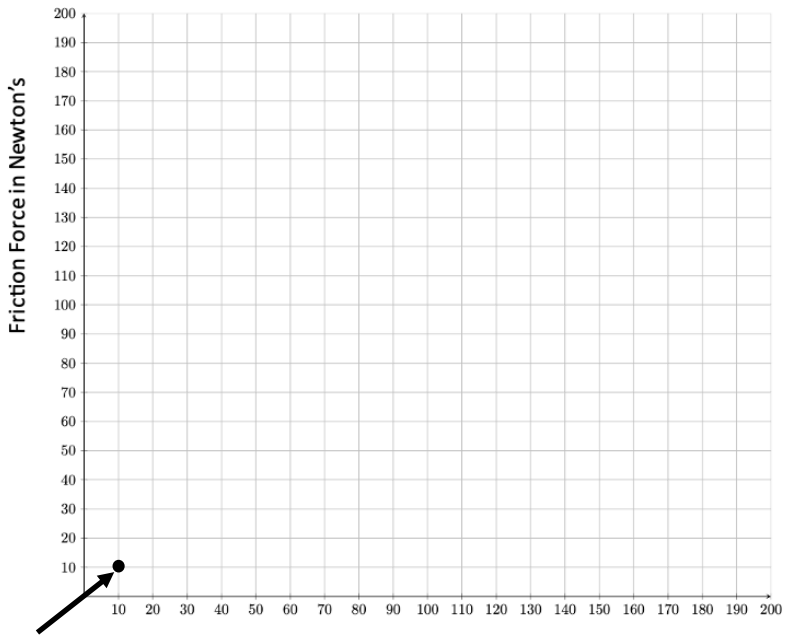
What you'll be doing is, using the dummy, you'll see how the force of friction on the block changes as the "**Applied Force**" changes.

Start by setting your "**Applied Force**" to 10 Newton's by clicking on the ***arrow*** and seeing what the Friction Force is.



We can see, that when the **Applied Force** is 10 Newton's, the **Friction Force** is also 10 Newton's!

Mark these numbers on your graph!



Since Applied Force is 10N, and Frictional Force is 10N, this is where your first dot goes.

On the simulation, what you're going to do is see how the applied force compares to the force of friction. You'll be graphing these numbers on your graph.

Increase your Applied Force by 10 each time (10N, 20N, 30N, 40N, etc.) and see what the Friction Force is! Do this until your Applied Force is 200N!

You should have 20 points on your graph.

Post-Lab Questions

1.) What happened to the Friction Force when the box was NOT moving? How did it compare to the Applied Force?

2.) What happened to the Friction Force when the box WAS moving? How did it compare to the Applied Force?