

## Lab: PhET Forces and Motion-Basics Part 2 – Friction

### CONCEPTUAL PHYSICS: UNIT 3

**Learning Objectives:** Students will be able to

- Predict how forces can change motion.
- Provide reasoning and evidence to explain motion changing or not.

1. Open the [Forces and Motion Basics](http://phet.colorado.edu/en/simulation/forces-and-motion-basics) (<http://phet.colorado.edu/en/simulation/forces-and-motion-basics>) simulation and play with the Friction screen for a few minutes.

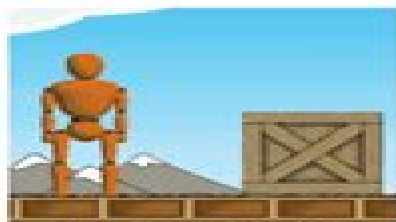


a. How does the Friction screen differ from the Net Force and Motion screens?

b. Also, what is something new you discovered?

2. Imagine that your friend, Sam is trying to move a box.

a. Using what you learned by exploring, try drawing arrows to predict what might happen in the pictures below. (Try this part without using the simulation.)



Sam not pushing



Sam pushing but box not moving



Sam pushing and box moving

b. Check your sketches using the sim and make corrections if needed. List any new ideas you discovered.

# Phet Friction And Acceleration Worksheet Answers

**Yi-Tong Ma**



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