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.
- Open the Forces and Motion Basics (http://phet.colorado.edu/en/simulation/forces-andmotion-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?
- Imagine that your friend, Sam is trying to move a box.
 - 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 movina

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

Foss Force And Motion Workbook Answer Key

M Carnoy

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Infantry .1988 Scientific American, 1876 Monthly magazine devoted to topics of general scientific interest Photoplay ,1920 Forest and Stream ,1889 Flying Magazine ,1944-10 **Engineering News and American** Railway Journal ,1894 Children's Books in Print ,1993 The Army-Navy-Air Force Register ,1955 The Fishing The Forties Arleen Keylin, Jonathan Cohen, 1980 The stormy decade which witnessed the end of World **Gazette** .1896 War II and the dropping of the first atomic bomb is remembered in word and picture from the files of the New York Times Cincinnati Magazine, 2001-08 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region **Engineering News** ,1894 The New York Times Index ,1979 SCI RES BK FOSS ENERGY FORCE and MTN Hollywood Reporter ,1945 CR12 EACH Lawrence Hall of Science, 2010 This module has four investigations that focus on the physical science concepts of force and motion and provide students with in depth experiences with scientific and engineering practices

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