

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.

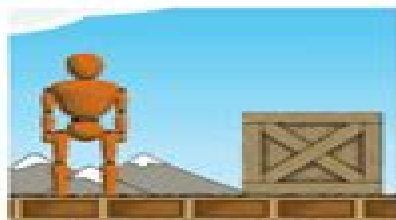


a. How does the Friction screen differ from the Net Force and Motion screens?

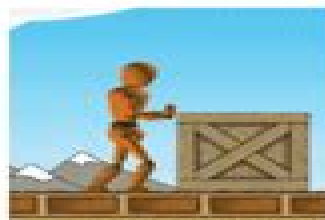
b. Also, what is something new you discovered?

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

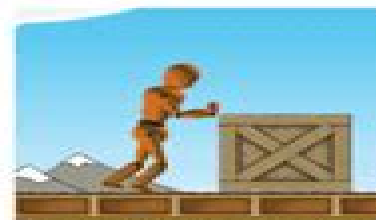
a. Using what you learned by exploring, try drawing arrows to predict what might happen in the pictures below. (Try this part without using the simulation.)



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 Forces And Motion Basics Answer Key

Robert J. Marzano



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College Physics for AP® Courses Irna Lyublinskaya, Douglas Ingram, Gregg Wolfe, Roger Hinrichs, Kim Dirks, Liza Pujji, Manjula Devi Sharma, Sudhi Oberoi, Nathan Czuba, Julie Kretchman, John Stoke, David Anderson, Erika Gasper, 2015-07-31 This introductory algebra based two semester college physics book is grounded with real world examples illustrations and explanations to help students grasp key fundamental physics concepts This online fully editable and customizable title includes learning objectives concept questions links to labs and simulations and ample practice opportunities to solve traditional physics application problems Website of book **Conjuring the Universe** Peter William Atkins, 2018 The marvellous complexity of the Universe emerges from several deep laws and a handful of fundamental constants that fix its shape scale and destiny Peter Atkins identifies the minimum decisions that would be needed for the Universe to behave as it does arguing that the laws of Nature can spring from very little Or perhaps from nothing at all **College Physics** Paul Peter Urone, Urone, 1997-12 **Cyber-Physical Laboratories in Engineering and Science Education** Michael E. Auer, Abul K.M. Azad, Arthur Edwards, Ton de Jong, 2018-04-26 This volume investigates a number of issues needed to develop a modular effective versatile cost effective pedagogically embedded user friendly and sustainable online laboratory system that can deliver its true potential in the national and global arenas This allows individual researchers to develop their own modular systems with a level of creativity and innovation while at the same time ensuring continuing growth by separating the responsibility for creating online laboratories from the responsibility for overseeing the students who use them The volume first introduces the reader to several system architectures that have proven successful in many online laboratory settings The following chapters then describe real life experiences in the area of online laboratories from both technological and educational points of view The volume further collects experiences and evidence on the effective use of online labs in the context of a diversity of pedagogical issues It also illustrates successful online laboratories to highlight best practices as case studies and describes the technological design strategies implementation details and classroom activities as well as learning from these developments Finally the volume describes the creation and deployment of commercial products tools and services for online laboratory development It also provides an idea about the developments that are on the horizon to support this area **Brain-powered Science** Thomas O'Brien, 2010 **The Origins of World War II** Keith Eubank, 2014-09-11 More than 60 years have passed since the outbreak of the most catastrophic conflict the world has known 30 million people dead and unbelievable devastation In the 3rd edition of this popular volume Keith Eubank seeks answers to the questions that have plagued us Why after the ghastly ordeal of World War I did Western powers undervalue the threat from Hitler Why was there so much reluctance on the part of Britain and France to confront Germany Why had Germany been permitted to rearm and to occupy independent nations without a struggle What was the policy of appeasement Why did the appeasers fail to perceive Hitler's intentions In addition to a re-examination of these questions and an effort to dispel the enduring myths

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University Physics Samuel J. Ling, Jeff Sanny, William Moebs, 2017-12-19 University Physics is designed for the two or three semester calculus based physics course The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics science or engineering The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them Due to the comprehensive nature of the material we are offering the book in three volumes for flexibility and efficiency Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two and three semester physics courses nationwide We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject With this objective in mind the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts building upon what students have already learned and emphasizing connections between topics and between theory and applications The goal of each section is to enable students not just to recognize concepts but to work with them in ways that will be useful in later courses and future careers The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project

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Chemistry, Life, the Universe and Everything Melanie Cooper, Michael Klymkowsky, 2014-06-27 As you can see this molecular formula is not very informative it tells us little or nothing about their

structure and suggests that all proteins are similar which is confusing since they carry out so many different roles

Reading Wonders Reading/Writing Workshop Grade 4 McGraw-Hill Education,2012-04-16 Concise and focused the Wonders Reading Writing Workshop is a powerful instructional tool that provides students with systematic support for the close reading of complex text Introduce the week s concept with video photograph interactive graphic organizers and more Teach through mini lessons that reinforce comprehension strategies and skills genre and vocabulary Model elements of close reading with shared short text reads of high interest and grade level rigor Energy Roger Hinrichs,Merlin H. Kleinbach,2013 What is the impact of such energy issues as global warming radioactive waste and municipal solid waste on the individual and society ENERGY ITS USES AND THE ENVIRONMENT 5E International Edition answers these questions emphasizing the physical principles behind energy and its effects on our environment and explaining the basic physical principles behind the use of energy including the study of mechanics electricity and magnetism thermodynamics and atomic and nuclear physics By placing energy issues within the context of everyday examples and asking you to define and support critical arguments ENERGY ITS USES AND THE ENVIRONMENT 5E International Edition offers a provocative approach to this crucial issue *Developing Minds in the Digital Age* Oecd,2019-05-27 *Fields of Color* Rodney A Brooks,2010-12-14 Fields of Color explains Quantum Field Theory to a lay audience without equations It shows how this often overlooked theory resolves the weirdness of Quantum Mechanics and the paradoxes of Relativity The third edition contains a new solution to the measurement problem the most controversial problem in physics today and shows the quantum basis for Einstein s famous $E = mc^2$ **Body Physics** Lawrence Davis,201? Body Physics was designed to meet the objectives of a one term high school or freshman level course in physical science typically designed to provide non science majors and undeclared students with exposure to the most basic principles in physics while fulfilling a science with lab core requirement The content level is aimed at students taking their first college science course whether or not they are planning to major in science However with minor supplementation by other resources such as OpenStax College Physics this textbook could easily be used as the primary resource in 200 level introductory courses Chapters that may be more appropriate for physics courses than for general science courses are noted with an asterisk symbol Of course this textbook could be used to supplement other primary resources in any physics course covering mechanics and thermodynamics Textbook Web page **100 Excel VBA Simulations** Gerard M. Verschuuren,2016-11-18 Covering a variety of Excel simulations by using Visual Basic VBA from gambling to genetics this introduction is for people interested in modeling future events without the cost of an expensive textbook The simulations covered offer a fun alternative to the usual Excel topics and include situations such as roulette password cracking sex determination population growth and traffic patterns among many others

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