

Forces in 1D PhET Simulation Lab revd 2009

Name: _____

Background:

Newton's Laws describe motion and forces in the world around us. Objects have inertia, undergo acceleration and experience forces. Forces are measured in Newtons (N)...

Newton's First Law states:

Newton's Second Law states:

Newton's Third Law states: _____

When objects slide past each other in contact, *friction* usually plays a part. There are two types of friction: *Static*, which exists between objects BEFORE the objects start moving and *kinetic* which exists between objects that ARE MOVING.

Remember... it is not the presence of forces that cause acceleration...it is the presence of unbalanced or NET forces!

Go to: <http://phet.colorado.edu/en/simulation/forces-1d>

Procedure: Play with the Sims → Motion → Forces in 1 Dimension **Run Sim!**

1. the simulation between runs to reset the simulation.
2. **Slowly** drag the cabinet to the right to apply a force (blue vector). Observe the *applied force* and *friction force*.
3. Without movement, the applied force and friction forces are _____.
4. Once the cabinet starts to move, keep your mouse immobile to apply the same, constant force.

What happened? _____

5. Repeat steps 1-3, but release the mouse button once the cabinet starts to move. Without applied force, the force of friction does what? _____

6. Repeat the above experiments after clicking on , , and to show the A/V/D graphs of motion.

Draw a sketch of the acceleration, velocity, and distance graphs produced when the cabinet moves with a **constant acceleration**. (*acceleration is produced when Force applied > Force friction. This is a NET FORCE*)

Acceleration vs time



Velocity vs time



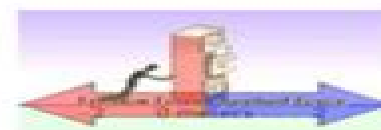
Distance vs time



- Click the *Friction* box (right side of the simulation) to remove friction.
- Drag the cabinet to apply a force for a few seconds and then release the mouse and allow the cabinet to move freely.
- Without friction, all the force applied creates acceleration.
- Without an applied force (while coasting), the acceleration becomes _____ and velocity becomes _____.



Forces in 1 Dimension



Forces In 1d Phet Simulation Lab Answers

R Pring



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Handbook of Research on Gaming Trends in P-12 Education Russell, Donna, Laffey, James M., 2015-10-21 Gaming applications are rapidly expanding into the realm of education. Game based education creates an active and enjoyable learning environment especially for children and young adults who regularly use gaming for recreational purposes. Due to the evolving nature of education, gaming provides a transformative learning experience for diverse students. The Handbook of Research on Gaming Trends in P 12 Education provides current research intended to aid educators, school administrators, and game developers in teaching today's youth in a technology-immersive society. This publication melds together gaming for entertainment purposes as well as gaming applied within educational settings with an emphasis on P 12 classrooms. Featuring exhaustive coverage on topics relating to virtual reality, game design, immersive learning, distance learning through 3D environments, as well as best practices for gaming implementation in real-world settings, this handbook of research is an essential addition to the reference collection of international academic libraries.

New Challenges and Opportunities in Physics Education Marilena Streit-Bianchi, Marisa Michelini, Walter Bonivento, Matteo Tiveri, 2023-10-30 This book is invaluable for teachers and students in high school and junior college who struggle to understand the principles of modern physics and incorporate scientific methods in their lessons. It provides interactive and multidisciplinary approaches that will help prepare present and future generations to face the technological and social challenges they will face. Rather than using a unidirectional didactic approach, the authors—scientists, philosophers, communication experts, science historians, and science education innovators—divide the book into two parts. The first part, *Communicating Contemporary Physics*, examines how new physics developments affect modern culture, while the second part, *Digital Challenges for Physics Learning*, covers physics education research using ICT, plus the experiences of classroom teachers and a range of ideas and projects to innovate physics and STEM teaching.

Student Lab Manual for Argument-Driven Inquiry in Physical Science Jonathon Grooms, Patrick J. Enderle, Todd Hutner, Victor Sampson, 2016-10-01 Are you interested in using argument-driven inquiry for middle school lab instruction but just aren't sure how to do it? *Argument-Driven Inquiry in Physical Science* will provide you with both the information and instructional materials you need to start using this method right away. The book is a one-stop source of expertise, advice, and investigations to help physical science students work the way scientists do. *Student Lab Manual for Argument-Driven Inquiry in Life Science* provides the student materials you need to guide your students through these investigations. With lab details, student handouts, and safety information, your students will be ready to start investigating.

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19-03-2025, Eye Tracking for STEM Education Research: New Perspectives Pascal Klein, Martin Rusek, Maike Schindler, 2024-04-04 A modern approach to improving education uses the components of experimental scientific research practices based on objective data dissemination of results and the use of modern technologies STEM education research is maturing and new tools and analysis techniques become available As one example eye tracking the recording of persons eye movements has been growing in popularity as it enables researchers to study learning materials effectiveness problem solving and even students approaches during experimentation Eye movements as captured using eye tracking can reveal information about a student s attention and cognition on a process level going well beyond classical product based assessment techniques such as questionnaires or tests

Handbook on Personalized Learning for States, Districts, and Schools Marilyn Murphy, Sam Redding, Janet Twyman, 2016-07-01 The recent passage of the Every Student Succeeds Act ESSA presents new opportunities and greater flexibility in efforts to personalize learning for all children The Handbook on Personalized Learning for States Districts and Schools provides insight and guidance on maximizing that new flexibility Produced by the Center on Innovations in Learning CIL one of seven national content centers funded by the U S Department of Education this volume suggests how teachers can enhance personalized learning by cultivating relationships with students and their families to better understand a child s learning and motivation Personalized learning also encourages the development of students metacognitive social and emotional competencies thereby fostering students self direction in their own education one aimed at mastery of knowledge and skills and readiness for career and college Chapters address topics across the landscape of personalized learning including co designing instruction and learning pathways with students variation in the time place and pace of learning including flipped and blended classrooms and using technology to manage and analyze the learning process The Handbook s chapters include Action Principles to guide states districts and schools in personalizing learning

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977

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