



Name: Sierra Braun

Date: 04-22-2022

Student Exploration: Simple Harmonic Motion

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: controlled experiment, harmonic motion, oscillation, pendulum, period, spring, spring constant

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A bungee jumper launches herself off a bridge. How would you describe her motion?

The bungee jumper travels in a way resembling a spring.

2. A child goes to the playground and gets on a swing. How would you describe his motion?

On a swing, the motion is similar to that of a pendulum.

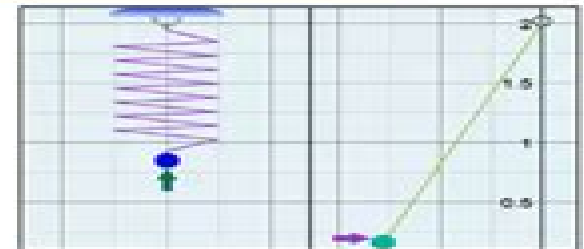
3. What do the motions of the bungee jumper and swinger have in common?

They both have harmonic motion

Gizmo Warm-up

Harmonic motion is repeating back-and-forth or up-and-down movement. The *Simple Harmonic Motion* Gizmo allows you compare the harmonic motions of a **spring** and a **pendulum**.

To begin, open the **TOOLS** tab on the bottom right and drag one arrow to the bottom of the spring so that the weight just touches the tip of the arrow, as shown. Drag a second arrow so that the pendulum just touches the tip of the arrow when it swings to the left.



1. When the spring touches the arrow, click the green button on the stopwatch. Count the movements, or **oscillations**. Click the green button again after the tenth oscillation.

- A. What is the time for 10 oscillations of the spring?

5.65 sec

- B. Divide this time by 10 to find the **period** of the spring:

.565 sec

2. Click the red button to reset the stopwatch. Use the same procedure on the pendulum. What is the period of the pendulum?

2.55 sec

Simple Harmonic Motion Explore Learning Answer Key

J. Myron Atkin, Paul Black



Simple Harmonic Motion Explore Learning Answer Key:

Fundamentals of Physics David Halliday, Robert Resnick, Jearl Walker, 2013-08-13 The 10th edition of Halliday Resnick and Walker's Fundamentals of Physics provides the perfect solution for teaching a 2 or 3 semester calculus based physics course providing instructors with a tool by which they can teach students how to effectively read scientific material identify fundamental concepts reason through scientific questions and solve quantitative problems The 10th edition builds upon previous editions by offering new features designed to better engage students and support critical thinking These include NEW Video Illustrations that bring the subject matter to life NEW Vector Drawing Questions that test students conceptual understanding and additional multimedia resources videos and animations that provide an alternative pathway through the material for those who struggle with reading scientific exposition WileyPLUS sold separately from text *Fundamentals of Physics, Extended* David Halliday, Robert Resnick, Jearl Walker, 2021-10-12 Fundamentals of Physics 12th Edition guides students through the process of learning how to effectively read scientific material identify fundamental concepts reason through scientific questions and solve quantitative problems The 12th edition includes a renewed focus on several contemporary areas of research to help challenge students to recognize how scientific and engineering applications are fundamental to the world's clockwork A wide array of tools will support students active learning as they work through and engage in this course Fundamentals of Physics 12e is built to be a learning center with practice opportunities interactive challenges activities simulations and videos Practice and assessment questions are available with immediate feedback and detailed solutions to ensure that students understand the problem solving processes behind key concepts and understand their mistakes while working through problems **Fundamentals of Physics, Volume 1** David Halliday, Robert Resnick, Jearl Walker, 2017-12-11 The first volume of a two volume text that helps students understand physics concepts and scientific problem solving Volume 1 of the Fundamentals of Physics 11th Edition helps students embark on an understanding of physics This loose leaf text covers a full range of topics including measurement vectors motion and force It also discusses energy rotation equilibrium gravitation and oscillations as well temperature and heat The First and Second Law of Thermodynamics are presented as is the Kinetic Theory of Gases The text problems questions and provided solutions guide students in improving their problem solving skills **Core Concepts of Mechanics and Thermodynamics** Rituraj Dalal, 2025-02-20 Core Concepts of Mechanics and Thermodynamics is a textbook designed for students and anyone interested in these crucial areas of physics The book begins with the basics of mechanics covering motion forces and energy and then moves on to thermodynamics discussing heat temperature and the laws of thermodynamics The book emphasizes clear explanations and real world examples to illustrate concepts and it also provides problem solving techniques to apply what you learn It covers mechanics and thermodynamics from basic principles to advanced topics explains concepts clearly with examples teaches problem solving techniques connects theory to real world applications in engineering physics and

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decisions about the future of science education **Catalog of Higher Education Application Programs** ,1988 **New Information Technology in Education** David Hawkrige,2022-06-01 First published in 1983 New Information Technology in Education surveyed developments in the field of information technology and demonstrated how it could be used to improve the quality of education The book considered the experience of a wide range of countries including the United States Japan and those in Europe While explaining the potential improvements that the new technology could bring this book also reviewed the problem areas and helped educationalists to evaluate the relevance of the new technology for their own work In an age of teaching via Zoom videos it is interesting to take a look at a time when information technology in education was at its nascent stage This book will be of interest to teachers and students of history education technology and pedagogy

Physics John D. Cutnell,Kenneth W. Johnson,2009-09-08 Designed for medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution **Mathematics in the Sixth Form**

Inspectorate of Schools (England and Wales),1982 **Physics for Scientists and Engineers** Paul M. Fishbane,Stephen Gasiorowicz,Stephen T. Thornton,1996 *Physics for Science and Engineering* Paul M. Fishbane,Stephen Gasiorowicz,Stephen T. Thornton,Princeton University. Department of Physics,1993 **Proceedings of the 7th Annual**

International Seminar on Transformative Education and Educational Leadership, AISTEEL 2022, 20 September 2022, Medan, North Sumatera Province, Indonesia Bornok Sinaga,Rahmad Husein,Juniastel Rajagukguk,2022-12-06 Proceedings of the 7th Annual International Seminar on Transformative Education and Educational Leadership AISTEEL 2022 contains several papers that have presented at the seminar with theme Technology and Innovation in Educational Transformation This seminar was held on 20 September 2022 and organized by Postgraduate School Univesitas Negeri Medan and become a routine agenda annually The 7th AISTEEL was realized this year with various presenters lecturers researchers and students from universities both in and out of Indonesia The 7th AISTEEL presents 4 distinguished keynote speakers from Universitas Negeri Medan Indonesia Murdoch University Australia Curtin University Perth Australia University Malaya Malaysia Monash University Australia and Tampere University of Applied Sciences Finland In addition presenters of parallel sessions come from various Government and Private Universities Institutions Academy and Schools Some of them are those who have sat and will sit in the oral defence examination The plenary speakers have been present topics covering multi disciplines They have contributed many inspiring inputs on current trending educational research topics all over the world The expectation is that all potential lecturers and students have shared their research findings for improving their teaching process and quality and leadership There are 162 papers passed through rigorous reviews process

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web isotopes are distinct nuclear species or nuclides as technical term of the same chemical element they have the same atomic number number of protons in their nuclei and position in the periodic table and hence belong to the same chemical element but differ in nucleon numbers mass numbers due to different numbers of neutrons in

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