



Name:

Date:

Student Exploration: Period of a Pendulum

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

Vocabulary: controlled experiment, mean, pendulum, period

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

A **pendulum** is a weight that can swing freely back and forth. The **period** of a pendulum is the amount of time required to make one full back-and-forth swing.

In each of the comparisons below,  **highlight** the pendulum that you think will have a shorter period.

Long pendulum

vs.

Short pendulum

Heavy pendulum

vs.

Light pendulum

Pendulum on Earth

vs.

Pendulum on Moon

Pendulum with a large arc

vs.

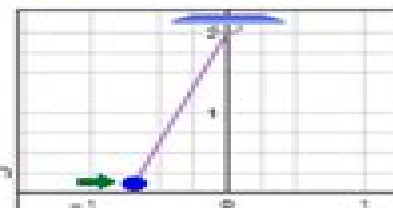
Pendulum with a small arc

Gizmo Warm-up

The *Period of a Pendulum* Gizmo allows you to explore the factors that control how quickly a pendulum swings back and forth.

To begin, practice measuring the period of the pendulum. On the Gizmo, check that all variables are set to their original values:

$m = 0.5$ kg, $L = 2.0$ m, $g = 9.8$ m/s², and $\theta = 20^\circ$. Open the **Tools** tab and drag an arrow so that it just touches the pendulum at its left-most position, as shown at right.



1. A full "swing" of the pendulum is one complete back-and-forth movement. Select the **TABLE** tab. Click **Mark time** each time the pendulum touches the arrow. Mark 10 times. What values do you get for the period of the pendulum?

1.43	2.76	2.98	2.75	2.98	2.87	2.87	2.98	2.97	2.86
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2. What is the **mean** of these values? (Note: To find the mean, add up the values and divide by the number of values, or 10.)

1.455

Period Of A Pendulum Gizmo Answers

A Gutmann



Period Of A Pendulum Gizmo Answers:

Simulation and Learning Franco Landriscina, 2013-03-14 The main idea of this book is that to comprehend the instructional potential of simulation and to design effective simulation based learning environments one has to consider both what happens inside the computer and inside the students minds The framework adopted to do this is model centered learning in which simulation is seen as particularly effective when learning requires a restructuring of the individual mental models of the students as in conceptual change Mental models are by themselves simulations and thus simulation models can extend our biological capacity to carry out simulative reasoning For this reason recent approaches in cognitive science like embodied cognition and the extended mind hypothesis are also considered in the book A conceptual model called the epistemic simulation cycle is proposed as a blueprint for the comprehension of the cognitive activities involved in simulation based learning and for instructional design The New York Times Magazine ,1998-07 *Literacy Essentials* Regie Routman, 2023-10-10 In her practical and inspirational book *Literacy Essentials Engagement Excellence and Equity for All Learners* author Regie Routman guides K 12 teachers to create a trusting intellectual and equitable classroom culture that allows all learners to thrive as self directed readers writers thinkers and responsible citizens Over the course of three sections Routman provides numerous Take Action ideas for implementing authentic and responsive teaching assessing and learning This book poses a key question How do we rise to the challenge of providing an engaging excellent equitable education for all learners including those from high poverty and underserved schools Teaching for Engagement Many high performing schools are characterized by a thriving school culture built on a network of authentic communication Teachers can strengthen classroom engagement by building a trusting and welcoming environment where all students can have a safe and collaborative space to grow and develop Pursuing Excellence Routman identifies 10 key factors that describe an excellent teacher ranging from intellectual curiosity to creativity and explains how carrying yourself as a role model contributes to an inclusive caring empathic and fair classroom She also stresses the importance for school leaders to make job embedded professional development a top priority Dismantling Unequal Education The huge gap in the quality of education in high vs low income communities is the civil rights issue of the 21st century according to Routman She spells out specific actions educators can take to create more equitable schools and classrooms such as diversifying texts used in curriculums and ensuring all students have access to opportunities to discuss reflect and engage with important ideas From the author I wrote *Literacy Essentials* because I saw a need to simplify teaching raise expectations and make expert teaching possible for all of us I saw a need to emphasize how a school culture of kindness trust respect and curiosity is essential to any lasting achievement I saw a need to demonstrate and discuss how and why the beliefs actions knowledge we hold determine the potential for many of our students Equal opportunity to learn depends on a culture of engagement and equity which under lies a relentless pursuit of excellence *The Technology Teacher* ,2002 *Wall Street Journal Index* ,1996 *The*

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