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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.

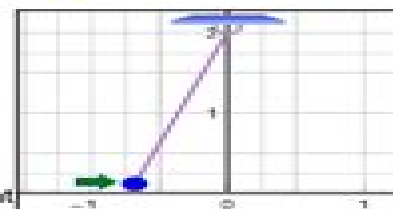
Pendulum with a small arc

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?

2.94	2.88	2.88	2.82	2.80	2.96	2.80	2.84	2.88	2.84
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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.)

2.864

Period Of A Pendulum Gizmo Answers

S Ben Porath

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Period Of A Pendulum Gizmo Answers:

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