

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.

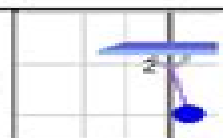
**Vocabulary:** controlled experiment, mean, pendulum, period

### Activity B:

#### Length and period

#### Get the Gizmo ready:

- Click **Reset**.
- Set **L** to 0.2 m, **g** to 10.0 m/s<sup>2</sup>, and **θ** to 20°. (Note: You can type values directly into the text boxes.)
- You can set the mass **m** to any value.



**Introduction:** The Dutch scientist Christiaan Huygens is credited as the first to create a formula that describes the period of a pendulum. In this and the next activity, you will derive Huygens's formula by measuring the effect of length and gravitation on the period of a pendulum.

**Question:** What is the effect of length on the period of a pendulum?

1. **Predict:** How do you think a pendulum's period will change if its length is multiplied by 2?

i think it'll go 150% up to the original value

2. **Measure:** Keeping **g** and **θ** constant, measure the period for each of the following lengths. Leave the last three columns blank for now. Include all units.

L (m)	Time for 10 swings (s)	Period (s)	Length factor	Time factor	$\sqrt{\text{Length factor}}$
0.2 m	8.88	.888	1	1	1
0.4 m	12.72	1.272	2	1.43	1.41
0.8 m	18	1.8	4	2.02	2
1.0 m	20.09	2.009	5	2.26	2.23
1.8 m	27	2.7	9	3.04	3

3. **Calculate:** Divide each length by the original length (0.2 m). Record in the "Length factor" column. Fill in the "Time factor" column by dividing each period by the original period.
4. **Calculate:** Find the square root of each length factor, and fill in the last column of the table.

# Period Of A Pendulum Gizmo Answers

**K Payea**

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:**

**The Correction of the Period of a Pendulum for the Amplitude of the Swing** Walter Davis Lambert,1920

**Three Factors that Influence the Period of a Pendulum** Peter M. Hall,1954

## **Period Of A Pendulum Gizmo Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Period Of A Pendulum Gizmo Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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