

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/s², 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

Annelies Wilder-Smith

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.

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Reviewing **Period Of A Pendulum Gizmo Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Period Of A Pendulum Gizmo Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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