

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	8.88	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

CL Gary

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'CL Gary' text.

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