

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^2 , 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

Siddappa N.Byrareddy



Period Of A Pendulum Gizmo Answers:

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Period Of A Pendulum Gizmo Answers**

In a world inundated with monitors and the cacophony of quick interaction, the profound power and emotional resonance of verbal artistry often fade into obscurity, eclipsed by the constant assault of noise and distractions. Yet, situated within the musical pages of **Period Of A Pendulum Gizmo Answers**, a captivating perform of fictional brilliance that pulses with organic emotions, lies an memorable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, that magical opus guides visitors on a mental odyssey, gently revealing the latent possible and profound influence stuck within the complex internet of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is central subjects, dissect their captivating publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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