

Name: Date:

Student Exploration: Period of a Pendulum

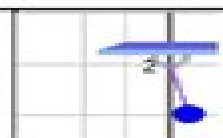
Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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	0.888	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

Christian G. Meyer

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:

Uncover the mysteries within Explore with is enigmatic creation, Embark on a Mystery with **Period Of A Pendulum Gizmo Answers** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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Table of Contents Period Of A Pendulum Gizmo Answers

1. Understanding the eBook Period Of A Pendulum Gizmo Answers
 - The Rise of Digital Reading Period Of A Pendulum Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Period Of A Pendulum Gizmo Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Period Of A Pendulum Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Period Of A Pendulum Gizmo Answers
 - Personalized Recommendations
 - Period Of A Pendulum Gizmo Answers User Reviews and Ratings
 - Period Of A Pendulum Gizmo Answers and Bestseller Lists
5. Accessing Period Of A Pendulum Gizmo Answers Free and Paid eBooks
 - Period Of A Pendulum Gizmo Answers Public Domain eBooks
 - Period Of A Pendulum Gizmo Answers eBook Subscription Services
 - Period Of A Pendulum Gizmo Answers Budget-Friendly Options
6. Navigating Period Of A Pendulum Gizmo Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Period Of A Pendulum Gizmo Answers Compatibility with Devices
 - Period Of A Pendulum Gizmo Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Period Of A Pendulum Gizmo Answers
 - Highlighting and Note-Taking Period Of A Pendulum Gizmo Answers
 - Interactive Elements Period Of A Pendulum Gizmo Answers
 8. Staying Engaged with Period Of A Pendulum Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Period Of A Pendulum Gizmo Answers
 9. Balancing eBooks and Physical Books Period Of A Pendulum Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Period Of A Pendulum Gizmo Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Period Of A Pendulum Gizmo Answers
 - Setting Reading Goals Period Of A Pendulum Gizmo Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Period Of A Pendulum Gizmo Answers
 - Fact-Checking eBook Content of Period Of A Pendulum Gizmo Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Period Of A Pendulum Gizmo Answers Introduction

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