

Name: Date:

Student Exploration: Period of a Pendulum

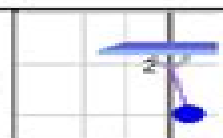
Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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

Yijin Wang

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

This book delves into Period Of A Pendulum Gizmo Answers. Period Of A Pendulum Gizmo Answers is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Period Of A Pendulum Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Period Of A Pendulum Gizmo Answers
 - Chapter 2: Essential Elements of Period Of A Pendulum Gizmo Answers
 - Chapter 3: Period Of A Pendulum Gizmo Answers in Everyday Life
 - Chapter 4: Period Of A Pendulum Gizmo Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Period Of A Pendulum Gizmo Answers. This chapter will explore what Period Of A Pendulum Gizmo Answers is, why Period Of A Pendulum Gizmo Answers is vital, and how to effectively learn about Period Of A Pendulum Gizmo Answers.
 3. In chapter 2, the author will delve into the foundational concepts of Period Of A Pendulum Gizmo Answers. The second chapter will elucidate the essential principles that must be understood to grasp Period Of A Pendulum Gizmo Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Period Of A Pendulum Gizmo Answers in daily life. The third chapter will showcase real-world examples of how Period Of A Pendulum Gizmo Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Period Of A Pendulum Gizmo Answers in specific contexts. The fourth chapter will explore how Period Of A Pendulum Gizmo Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Period Of A Pendulum Gizmo Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Period Of A Pendulum Gizmo Answers.

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Period Of A Pendulum Gizmo Answers Introduction

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