

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

Peter M. Hall



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