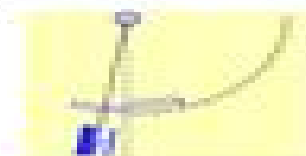


The Pendulum ... Introduction to Harmonic Motion PhET Lab**Introduction:**

Old grandfather clocks have large pendulums that swing back and forth to keep time. A Foucault pendulum is a large pendulum that swings in two arcs as the earth rotates to also keep time. The time a pendulum takes to swing back and forth (one cycle) is referred to as one **period**. The period of a pendulum is measured in seconds and is given by the formula shown below. The inverse of period is **frequency**, the number of complete cycles each second. The **equilibrium position** is the point below the pivot, at a neutral position. The **amplitude** of the pendulum's swing is the displacement from the equilibrium. The top of each swing is referred to as **maximum displacement** or **maximum amplitude**.

**Pendulum Lab****Important Formulas:**

$$T = 2\pi\sqrt{\frac{L}{g}} \quad f = \frac{1}{T}$$

Procedure: PhET Simulations → Play with the Sims → Motion → Pendulum Lab [\[Link to Sim\]](#)

1. Spend some time learning about pendulums. The simulated pendulum is frictionless, so it will attain the same amplitude in every swing. That is, it will lose no energy to friction (heat).
2. Using a 1.00 kg pendulum, for each trial, adjust the length of the pendulum and determine the period. (In this lab, you may use the photogate timer to determine the period, but in the next lab, the spring lab you will not have this luxury.)
3. Complete the table below.

Mass (kg)	Length (m)	Period (s)	gravity
1.00 kg			Earth, 9.8 m/s ²
1.00 kg			Earth, 9.8 m/s ²
1.00 kg			Earth, 9.8 m/s ²
1.00 kg			Earth, 9.8 m/s ²

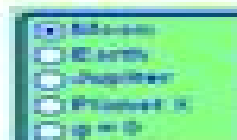


4. Repeat the investigation but, for each trial, adjust only the mass of the pendulum, leaving all other variables constant.

Mass (kg)	Length (m)	Period (s)	gravity

5. Repeat the experiment, but, for each trial, adjust the gravity (location) leaving all other variables constant.

Mass (kg)	Length (m)	Period (s)	gravity



Answers To Phet Pendulum Lab

Xiang Xie



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