

Name: \_\_\_\_\_

## Questions Related to Lab-2

Does the period of a pendulum depend on the mass of the weight?

Does the period of a pendulum depend on the angle of swing for small angles?

Does the period of a pendulum depend on its length?

Why is a pendulum clock particularly useful and what is the purpose of its weights?

What does a child do to pump a swing without being pushed? This is not easy. You may need to go to a playground to really understand it.

As a pendulum on the earth swings at the north pole for 24 hours, what does it appear to do from the point of view of a person sitting on the ground?

As a pendulum on the earth swings at the equator for 24 hours, what does it appear to do from the point of view of a person sitting on the ground?

Coupled pendulums are pendulums of equal length that are weakly connected together. What happens if one is still and the other is started swinging?

What happens if a long line of many coupled pendulums is built, and one in the middle is started swinging?

What happens when rolling objects of identical shape but differing mass roll are raced?

What happens when a rolling large marble is raced against a small marble and a steel ball bearing?

What happens when a solid ball is raced against a hollow ball?