

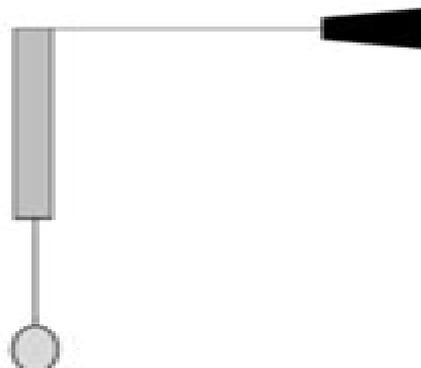
### AP Centripetal Acceleration Lab

*Note: Data collection will be done by table groups. Data analysis is to be done individually. Copying a data analysis from someone else or allowing someone else to copy your work will result in a zero for the assignment and a referral to the IB Coordinator for cheating.*

#### Discussion:

This lab will explore centripetal acceleration using a device similar to the one in the diagram to the right. The device consists of a PVC tube, a lead weight and a rubber stopper. The weight and stopper are connected by 40lb test fishing line. The object of this exercise is to experimentally determine the velocity and centripetal acceleration of the rubber stopper and then compare it to the theoretically determined value. The stopper will be rotated at a given radius for a given period of time while the weight remains at a constant distance from the tube. The tension in the string needed to create the centripetal acceleration of the stopper is equal to the tension needed to keep the weight in a constant position. From the data collected you will compute velocity and centripetal acceleration of the stopper and then compare them to the theoretical values.

Reference the free-body diagrams below for the weight and the stopper:



If we apply Newton's Second Law to the free-body diagrams, for the weight we get,

$$F_T = F_g = m_w g$$

For the stopper we get,

$$F_T = m_s \frac{v^2}{r}$$

Combining the two equations we get,

$$m_s \frac{v^2}{r} = m_w g$$

If we then solve for the velocity of the stopper we get,

$$v^2 = \frac{m_w g r}{m_s}$$

$$v = \sqrt{\frac{m_w g r}{m_s}}$$

# Chapter 7 Test Review Answer Key Sphs Devil Physics

**Michael Brown**



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