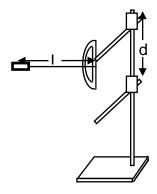
AP PHYSICS B

Lab: The Peg and the Pendulum

Name _	
Date	Period

Purpose: To find the minimum distance that a peg must be located below a pendulum to allow the pendulum to swing completely around.

Procedure: Adjust the position of the peg until a pendulum released at 90° will go completely around in a circle. Measure the length of the pendulum and the distance from the pendulum's support point to the peg. Use conservation of energy to calculate the value of d. Compare to the measured value. Repeat with the pendulum at 45°. Record all data below and be sure to show all work and units to receive full credit.



		L =	
For 90°			
d _{exp} =	d _{theo} =	% diff =	

For 45° $d_{exp} =$ $d_{theo} =$ % diff = _____