PHY I – Hooke's Law   Name:
Lab Alternative (20 pts total)   Date:

Objective: Determine the relationship between the force exerted on a spring and the amount it stretches

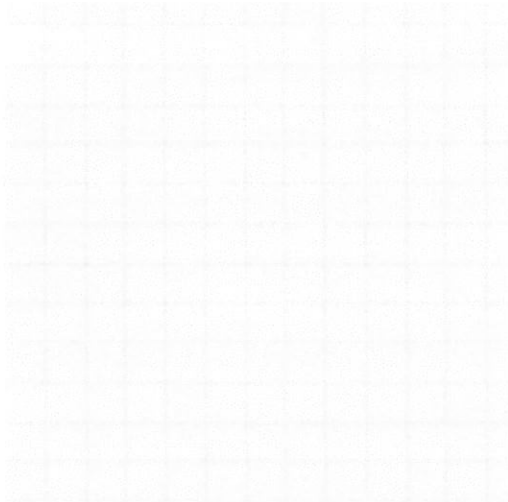Material: computer with internet access

Procedure: Goto http://www.4physics.com/phy_demo/HookesLaw/HookesLaw.html

      Use the simulation and collect the necessary data to calculate the spring constant for the spring in the simulation

Describe: Explain in your own words what the simulation is able to do (1pts)

Data (1pts): Create a table to the right of the graph

Graph the collected data (2pts)

Identify the general equation for Hooke's Law (1pt)

Calculate the slope of the line (1pt)

Create a model of the relationship (mathematical equation) (2pts)

Describe the relationship in words (2pts)