

(convert lab into an auto-graphic graph paper) and change the chart to be an auto-graphic

## Purpose:

1. Investigate Hooke's Law & the relationship between force and stretch for springs.
2. Investigate Hooke's Law & the relationship between force and stretch for springs.

## Discussion:

Physically, Hooke's Law states that the force exerted by a spring is directly proportional to the displacement of the spring from its equilibrium position. This relationship is expressed by the equation  $F = kx$ , where  $F$  is the force,  $k$  is the spring constant, and  $x$  is the displacement. The relationship is linear, and the slope of the line represents the spring constant  $k$ .

Hooke's Law is an example of a linear relationship, and it is important to understand that the relationship is linear only for small displacements. For larger displacements, the relationship becomes non-linear.

One way to investigate Hooke's Law is by measuring the force exerted by a spring for different displacements. A common way to apply a force is by using a spring scale, which measures the force exerted by the spring. The relationship between force and displacement is linear, and the slope of the line represents the spring constant  $k$ .

## Equipment:

PHET Simulation: Springs and masses Lab

<https://phet.colorado.edu/en/simulation/springs-and-masses> and <https://phet.colorado.edu/en/simulation/springs-and-masses> and <https://phet.colorado.edu/en/simulation/springs-and-masses> and <https://phet.colorado.edu/en/simulation/springs-and-masses>

## Procedure:

1. Open the simulation and click on the "Springs and masses" button.
2. Click on the "Spring" button to select the spring.
3. Click on the "Mass" button to select the mass.
4. Click on the "Stretch" button to stretch the spring.
5. Click on the "Force" button to measure the force.
6. Click on the "Displacement" button to measure the displacement.

Now, you can see the relationship between force and displacement.

At the end of the spring, the force exerted by the spring is zero.

Trial	Mass (g)	Force (N)	Displacement (cm) (stretch)	Displacement (cm) (stretch)
1	100g	1.0N	10cm	10cm
2	200g	2.0N	20cm	20cm
3	300g	3.0N	30cm	30cm

# Springs Phet Lab Answer Key

**Katrin Zwirgmaier**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Springs Phet Lab Answer Key:**

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