

UME-02 Hook's Law

- √ Hook's Law
- √ K Spring Constant
- √ Elasticity
- √ Hysteresis

Hooke's Law states that the restoring force of a spring is directly proportional to a small displacement. In equation form, we write

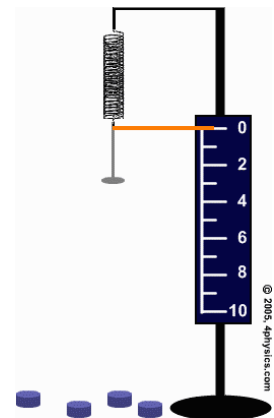
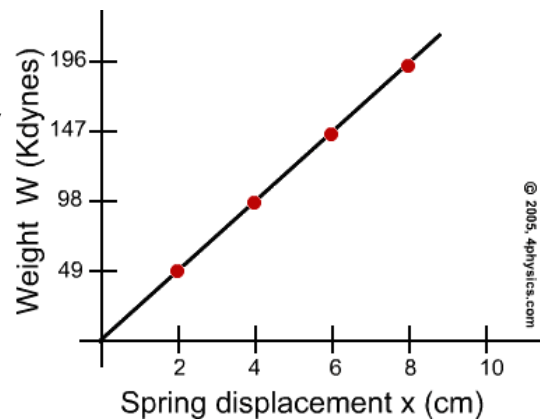
$$\mathbf{F = -kx}$$

where x is the size of the displacement. The proportionality constant k is specific for each spring.

The object of this virtual lab is to determine the spring constant k .

Displacement is measured in centimeters. Each of the blue weights has a mass of 50 grams. The gray virtual weight hanger has no mass.

Snapshots of the lab are found in the four figures that follow.



UME-02 Hook's Law exp. consists of:		
Item	Description	Qty
	Stand with Base	1
	weights	3
	Angle stand rod	1
	Coil spring	3
	Weight holder	1
	Meter Scale 100 cm	1