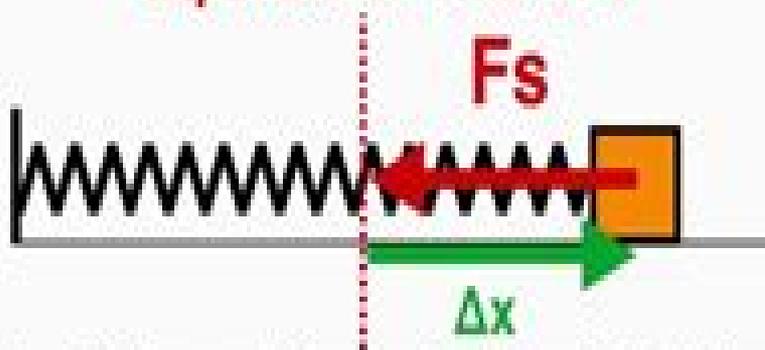


# Simple Harmonic Motion

Periodic motion around a central point of equilibrium where there is no net force. There is a restoring force that acts on the object that is linearly proportional to the displacement from the equilibrium position and acts in a direction opposite to that displacement.

## Spring

Equilibrium Position



$\Delta x$  = Displacement of spring from natural length. Always points away from spring's natural length position.

$F_s$  = Force applied by spring on object. Always points towards spring's natural length position.

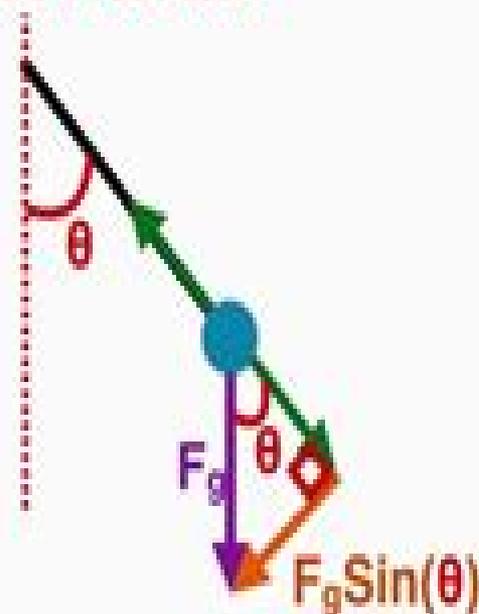
$F_s$  is the restoring force in a spring's simple harmonic motion.

$k$  = spring constant

Linear  
Hooke's Law:  $F_s = -k\Delta x$   $y = mx + b$   
 $F_s = -k\Delta x + 0$

## Pendulum

Equilibrium Position



# Notes Physics I Chapter 12 Simple Harmonic Motion

**Mark Steyvers**



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