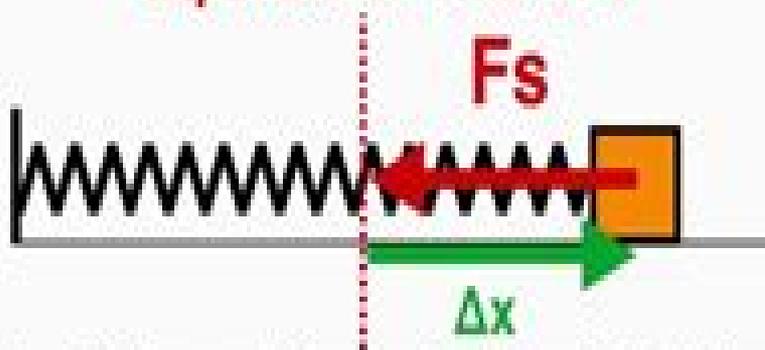


Simple Harmonic Motion

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



Δx = 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.

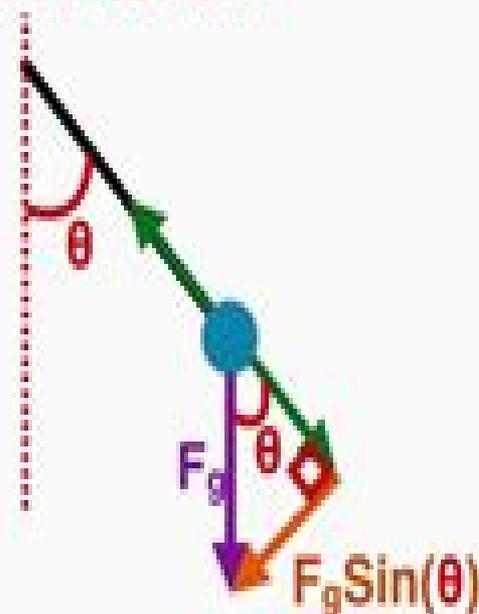
k = spring constant

Linear

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

Pendulum

Equilibrium Position



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Robert Martin Eisberg, Robert Resnick



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Notes and Questions in Physics John Sandford Shearer, 1904

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