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## Periodic Motion

Periodic motion is motion that repeats itself in a definite cycle. It occurs whenever a body has a stable equilibrium position and a restoring force that acts when it is displaced from equilibrium. Period  $T$  is the time for one cycle.

$f = \frac{1}{T}$  therefore  $T = \frac{1}{f}$

$\omega = 2\pi f = \frac{2\pi}{T}$

Fluid Mechanics

Mechanical Waves

Momentum, Impulse & Collisions

The diagram shows a mass  $m$  attached to a spring with spring constant  $k$ . The mass is displaced downwards by a distance  $x$  from its equilibrium position. The forces acting on the mass are the weight  $mg$  acting downwards and the spring force  $kx$  acting upwards. The acceleration  $a_x$  is shown acting upwards.

Fluid Mechanics

show uncompressible body exerts no force on the body, therefore the body

Question

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Remaining Cards (22)

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Flashcards

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2. Enter Start and End Times

02/07/2020 1:17 PM 60

02/07/2020 2:17 PM

3. Describe Meeting

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