Simple Harmonic Oscillators

There are a couple more equations to learn on this page I'm afraid. The experiment described at the bottom of the page shows where they come from, though, so that should help you remember them.

A Mass on a Spring is a Simple Harmonic Oscillator (SHO)

 When the mass is pushed to the left or pulled to the right of the equilibrium position, there's a force exerted on it. The size of this force (in N) is:

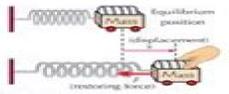
F = -kx

where A is the spring constant (stiffness) of the spring in Nim" and a is the displacement in m.

 After a bit of jiggery-pokery involving Newton's second law and some of the ideas on the previous page, you get the formula for the period of a mass oscillating on a spring:

 $T=2\pi\sqrt{\frac{m}{k}}$

T = period of oscillation in seconds on = mass in hg it = spring constant in North

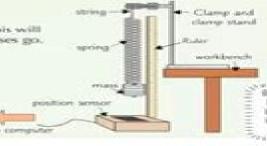


A simple theory of how allows in a lattice of the a social behave can be worked out by socializing them as master oscillating on aprings. So there you go.

You Can Check the Formula Experimentally



- Set up the equipment as shown in the diagram.
- Pull the masses down a set amount, this will be your initial amplitude. Let the masses go.
- The masses will now oscillate with simple harmonic motion.
- The position sensor measures the displacement of the mass over time.
- Connect the position sensor to a computer and create a displacement-time graph. Read off the period 7 from the graph.



the number of oscillations to get an average, as idl reduce the sandom error in your result.

This is a supply of this experiment is both electic and grantational. For the horizontal spring system shown above.

the potential energy is just electic.

You could also measure the seriod of an oscillation using

a stop watch. It's sensible to

ensurers the time taken for e.g.

five excitations, then divide by

You Can Use This Set Up to Investigate Factors Which Affect the Period

- 1) Change the mass, m, by loading more masses onto the spring,
- Change the spring stiffness constant, k, by using different combinations of springs.
- Change the amplitude, A, by pulling the masses down by different distances.

You'll get the following results:







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