

Simple Harmonic Motion

1. Define Simple Harmonic Motion.

When an object's acceleration is directly proportional to its displacement but in the opposite direction.

2. A grandfather clock has a simple pendulum, which is 1.5 m long. Calculate the period and hence the frequency of the pendulum.

$$T = 2\pi \sqrt{\frac{l}{g}} = 2\pi \sqrt{\frac{1.5}{9.81}} = 2.456919 \dots = 2.46 \text{ s}$$

3. A simple pendulum of length "l" has a periodic time of T_1 seconds. What is the periodic time, T_2 , of a pendulum whose length is 2l?

$$T_1 = 2\pi \sqrt{\frac{l}{g}} \text{ and } T_2 = 2\pi \sqrt{\frac{2l}{g}} = 2\pi\sqrt{2} \sqrt{\frac{l}{g}} = \sqrt{2}T_1$$

4. a) A spring, natural length 30 cm is 35 cm long when a mass of 200 g is suspended from it. What is the spring constant?

$$F = k\Delta L \Rightarrow k = \frac{F}{\Delta L} = \frac{mg}{\Delta L} = \frac{0.2 \times 9.81}{0.05} = 39.24 = 39 \text{ Nm}^{-1}$$

When the mass is pulled down 2.0 cm and released the spring/mass system oscillates with simple harmonic motion.

b) What is the time period of the oscillations?

$$T = 2\pi \sqrt{\frac{m}{k}} = 2\pi \sqrt{\frac{0.2}{39.24}} = 0.44857 \dots = 0.45 \text{ s}$$

Simple Harmonic Motion Questions

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web 140g plain flour 100g soft fresh white breadcrumbs 100g light muscovado sugar crumbled if it looks lumpy 3 large eggs 2 tbsp brandy or cognac plus extra to light the pudding 250g packet butter taken straight from the fridge for the brandy and ginger butter 175g unsalted butter softened grated zest of half an orange 5 tbsp icing sugar

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