

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

Didier Musso



Simple Harmonic Motion Questions:

Whispering the Secrets of Language: An Mental Quest through **Simple Harmonic Motion Questions**

In a digitally-driven world where monitors reign supreme and instant connection drowns out the subtleties of language, the profound strategies and mental nuances concealed within phrases often move unheard. However, situated within the pages of **Simple Harmonic Motion Questions** a charming fictional treasure pulsating with fresh thoughts, lies a fantastic journey waiting to be undertaken. Penned by a skilled wordsmith, this marvelous opus invites visitors on an introspective trip, gently unraveling the veiled truths and profound affect resonating within ab muscles fabric of each and every word. Within the emotional depths of this emotional review, we shall embark upon a honest exploration of the book is primary themes, dissect its fascinating publishing model, and yield to the strong resonance it evokes serious within the recesses of readers hearts.

<https://py.bijouxmedusa.com/public/publication/default.aspx/Understanding%20Children%20Development%205th%20Edition.pdf>

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