

According to Eqs. (14.1) and (14.2), the frequency f and period T are

$$f = \frac{\omega}{2\pi} = \frac{1}{2\pi} \sqrt{\frac{k}{m}} \quad (\text{simple harmonic motion}) \quad (14.11)$$

$$T = \frac{1}{f} = \frac{2\pi}{\omega} = 2\pi \sqrt{\frac{m}{k}} \quad (\text{simple harmonic motion}) \quad (14.12)$$

14.7 The greater the mass m in a tuning fork's tines, the lower the frequency of oscillation $f = (1/2\pi) \sqrt{k/m}$ and the

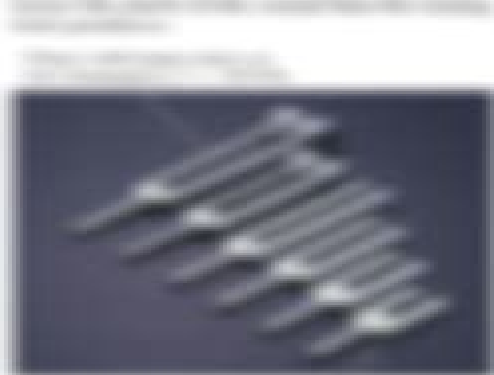


FIGURE 14.7

We see from Eq. (14.12) that a larger mass m , with its greater inertia, will have less acceleration, move more slowly, and take a longer time for a complete cycle (Fig. 14.7). In contrast, a stiffer spring (one with a larger force constant k) exerts greater acceleration.

EXAMPLE 14.1 A mass $m = 0.50 \text{ kg}$ is attached to a spring with force constant $k = 200 \text{ N/m}$. The mass is released from rest at a displacement $x = 0.10 \text{ m}$ from equilibrium. Find the frequency f and period T of the oscillation.

Period and Amplitude in SHM

The period T and frequency f of a simple harmonic oscillator depend on the mass m and the spring force constant k , but not on the amplitude A of the oscillation. This is a special feature of simple harmonic motion. For example, if you double the amplitude of a simple harmonic oscillator, the period T and frequency f remain the same. This is not true for all types of oscillations. For example, the period of a simple pendulum depends on the amplitude of the oscillation.

The amplitude A of a simple harmonic oscillator is the maximum displacement from equilibrium. It is the distance from the equilibrium position to the point of maximum displacement. The amplitude A is a measure of the energy of the oscillator. The greater the amplitude, the greater the energy. The amplitude A is also a measure of the maximum displacement from equilibrium. The amplitude A is a measure of the maximum displacement from equilibrium.

14.8 Simple Harmonic Motion: Frequency and Amplitude in SHM

Simple harmonic motion is a type of periodic motion. It is a motion that repeats itself at regular intervals. The period T is the time it takes for the motion to repeat itself. The frequency f is the number of cycles per unit time. The amplitude A is the maximum displacement from equilibrium. The amplitude A is a measure of the energy of the oscillator. The greater the amplitude, the greater the energy. The amplitude A is also a measure of the maximum displacement from equilibrium.

EXAMPLE 14.2 A mass $m = 0.50 \text{ kg}$ is attached to a spring with force constant $k = 200 \text{ N/m}$. The mass is released from rest at a displacement $x = 0.10 \text{ m}$ from equilibrium. Find the frequency f and period T of the oscillation.

SOLUTION We use Eqs. (14.11) and (14.12) to find the frequency f and period T of the oscillation.



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Proceedings of the Blended Learning in Science, Teaching and Learning Symposium, 2005. Presents proceedings of the annual Uniserve Conference. The papers contained in this book include topics as teaching science online, tutorial benefits of online assignments, blended learning, and other related issues in relation to teaching science at a university level.

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