Harmonic Motion

- Linear motion is motion that goes from place to place.

- Harmonic motion is that which repeats itself over and over.

$$T = 2\pi\sqrt{\frac{L}{g}}$$

This equation is used to calculate the period for a pendulum. The period is the time it takes for the bob to swing back and forth once. The variable g, 9.8 m/s^2, is acceleration due to gravity and L is the length of the pendulum bob. The constant π is often rounded to 3.14 and is common in formulas that involve rotational or circular motion.