

Name: _____

A student has a simple pendulum: A small mass attached to a thin string allowed to oscillate around a vertical axis; initially displaced by a small angle.

What happens to the period of oscillation if the length of the thin string is quadrupled?

What happens to the period of oscillation if the mass of the string is tripped?

What happens to the period of oscillation if the initial displaced angle is changed to a different small angle?

The student goes to the planet/moon/rock Pluto where the local acceleration due to gravity is approximately one sixteenth of earth's value. How does the period of his simple pendulum change?