

## Simple Harmonic Motion: The Pendulum

You are the designer for this experiment, so there's not much to see here. You will have access to photo-gates and timers, stopwatches, rulers, protractors, meter sticks, string, table clamps and bars, and a variety of masses to use for the pendulum bob.

You will design a set of experiments to determine how the period of the oscillation depends on mass, length, and initial angle.



Be careful with the photo-gate timers: under no circumstances should a swinging bob be carelessly allowed to crash into the equipment!