## **Project Checklist**

## → Minimum goal

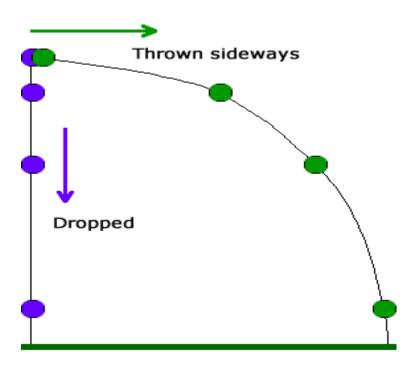


Figure 1.1

- Project a ball falling from some height on an oscilloscope.
  - →Control the vertical acceleration of the ball and the horizontal distance it travels.
  - → This will mean controlling the gravity and horizontal velocity.

## → Main goal

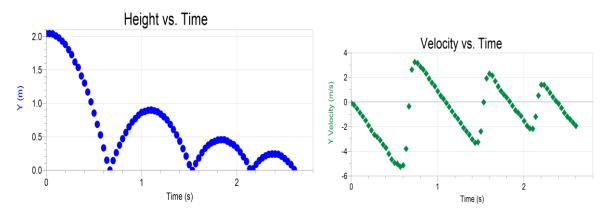


Figure 1.2

- Simulate the motion of an elastic ball bouncing on a concrete.
  - → Design and build circuits to control both the horizontal and vertical motion.
  - → Control the coefficients of Elasticity, gravity, and horizontal acceleration.
  - → Design and build Circuit to display the ball on an oscilloscope.

## 3. Stretch Goal

→ Display the simulation of the ball bouncing on a wall using galvanometers and lasers.