Name: _____   Date: _____   Course: _____   Professor: _____

M9c Prelab (2053): Free Fall Acceleration

Read lab instructions and watch the videos before answering the questions

1. In this experiment you will be dropping steel ball bearings, given a time of fall t = 1.07 s what is the initial height h? You may assume that the acceleration due to gravity g = 9.792 $\frac{m}{s^2}$.

2. Two metal balls are dropped from the same height. One ball is two times larger and heavier than the other ball. How do you expect the free fall acceleration of the larger ball compares to the acceleration of the smaller one?