

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Course: \_\_\_\_\_ Professor: \_\_\_\_\_

## M9c Prelab (1007) - Free Fall Acceleration



Read the lab instructions and watch the videos before answering questions

1. What equation will you use to calculate the acceleration of gravity in your experiment?
  
  
  
  
  
  
  
  
  
  
2. A ball is dropped from a height of 2.68 m and takes 0.73986 s to reach the floor. Calculate the free fall acceleration.
  
  
  
  
  
  
  
  
  
  
3. 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?