Objective: Design an experiment that will help determine if mass affects the average rate of fall (speed) of an object due to gravity.

Question: ____________________________________________________________

Hypothesis: ____________________________________________________________

Materials:
- Styrofoam ball
- Ball of clay (same dimensions as Styrofoam ball)
- Tennis ball
- Stopwatch
- Balance

Procedure: Minimum 5 steps

Data: Make 3 data tables with a title for each of the three objects dropped from the same height for a minimum of three trials each and units in parentheses at the top of each column for each measured number. Make sure to include a column for the mass, distance, each trial time, speed, and a row at the bottom for average speed. There is space on the next page to make each of the data tables. You may also use the back of this piece of paper or another piece. No ruler= No credit)
Conclusion Questions:

1. Were you surprised at your results? ______________________________________

2. What question(s) does this raise about the effect of gravity on objects?
   ________________________________________________________________
   ________________________________________________________________

3. Write a conclusion statement.
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________