

- 6) ALTERNATIVE MATHEMATICAL ANALYSIS: Plot a graph of distance versus the square of time and draw a best fit line. Determine the slope of this line. Show your slope calculation.
- 7) How do you know that the lab results are showing that the ball is accelerating uniformly?
- 8) What is the acceleration due to gravity?
- 9) Calculate the experimental error if the accepted value is -9.81 m/s^2 .
- 10) List and describe some sources of error that could account for any discrepancies.
- 11) Describe the relationship between distance and time that is indicated in your graphs.