Buggy Lab Graphing

Graphically determine the speed of the buggy moving along the ground.

Question: Write a research question that will guide you to accomplish the task given above.

Hypothesis: Provide a theory-based explanatory path from your task to your question and your procedure.

Planning: Write the procedure you will use to determine the trend in the distance traveled for each period of time for the buggy.

Data Table: Use the data table below to record your measurements. Be sure to include headers and units.

Graph: Create a graph to represent the data collected. Be sure to include the uncertainty in the values plotted. Label the axes with the quantity and units.

Trend: Identify the trend in the data by fitting a straight line through the data points. Also find the highest acceptable and lowest fits through the data. Show the calculations of the trends in the space below.

Result: Write a statement generalizing the results of your activity. Remember to refer back to the task.

Errors: There were a number of reasons for the range of data from trial to trial. Identify **Random** and **Systematic Errors**.

Random Errors:

Systematic Errors: