Unit 1: Relationships and Graphs

Name: _____   Block: _____

Labs will be collected at the end of class on Day 9. The following items will be graded. You either must have these in your notebook or (if absent) follow the online directions in order to earn an excused due to an absence.

Lab	Score
1. Lab 1: Dune Buggy Challenge • Completed and taped in the provided sheet. • Data section includes a completed data table, a plot of the data with a best fit line, and a statement of the specified distance, the predicted time, and the measured time. • Conclusion includes a **Claim** that answers the question and **Evidence** (something in the data section is specifically referred to) and **Reasoning** (logic is used to help explain how the **Evidence** provides support for the **Claim** that is made.	_____/4 (If absent, follow online dir'ns)
2. Relationships with Desmos • <u>Completed</u> the provided activity and taped it into your lab notebook. • Answers are reasonably correct.	_____/3
3. Lab 2: Bounce Height • Lab report contains clearly labeled and properly ordered Title, Lab Goal, Data, and Conclusion. • Data section includes a data table with labeled column headings (release height and bounce height). A plot of bounce height (vertical axis) vs. release height (horizontal axis) is also included (taped in). A linear or curve fit is displayed on the graph. Collected data are reasonably accurate. • Conclusion statement includes a **Claim** section that answers the question (linear, quadratic, or inverse), **Evidence** that refers to specific details in the Data section, and **Reasoning** that logically explains why the referenced Data provide support for the **Claim**.	_____/4
4. Lab 3: Paragraph Graphs • Lab report contains clearly labeled and properly ordered Title, Lab Goal, Data, and Conclusion. • Data section includes a data table with labeled column headings (paragraph width and paragraph height). A plot of height vs. width (or vice versa) is also included (taped in). A curve fit is displayed on the graph; <u>selected inverse</u> for the fit. Collected data are reasonably accurate. • Conclusion statement includes a **Claim** section that answers the question (the relationship is inverse), **Evidence** that refers to specific details in the Data section, and **Reasoning** that logically explains why the referenced Data provide support for the **Claim**.	_____/4 (If absent, follow online dir'ns)
5. Lab 4: Stopping Distance • Completed and taped the provided lab activity into the packet. • All parts of the activity are completed with care and some degree of thoroughness. • Data section (front) is reasonable accurate. Analysis section (back) is complete. • A plot of Stopping Distance (y) vs. Speed (x) is taped in or stapled to the sheet; performed a curve fit; selected <u>quadratic</u>. Completed the Data Table in Question #6. Values are consistent with the graph. • Answered Q#7 as <u>Quadrupled (4)</u> and gave some good evidence and reasoning for the claim – referring to Data values in Q#6. Answered Q#8 as <u>nine (9)</u> and gave some good evidence and reasoning for the claim – referring to Data values in Q#6. • Q#9: Speed is the independent variable; Stopping Distance is the dependent variable. • Q#10: The relationship is <u>Quadratic</u>.	_____/4 (If absent, you still must do.)