Scatter Plot Student Assessment

Step 1- Using the data from yesterday's parachute drop (which has been provided), create a scatter plot of your data. Your graph will be constructed on graph paper, neatly drawn, well-labeled, with appropriate titles. Make good use of the available graph space. Refer to the rubric for grading details.

Step 2- Using a highlighter; identify any clusters by circling them.

Step 3- Using a highlighter; identify any outliers by highlighting the plot on the graph.

Step 3- Construct a **best-fit line** for your data. Draw it onto the scatter plot.

Step 4- Write two brief statement explaining what the data are that you analyzed, and what kind of correlation you see in the graph. Does it make sense? Why or why not? Explain the **meaning** of the data (include units when appropriate).

Things to Remember

ALL graphs need

- Title
- Labels on each axis
- Units on each Axis Label
- Coordinates
- Scale
- Outliers/Clusters
- Line of Best Fit
- Two statements

Grading Rubric:

Category	4	3	2	1
Accuracy of Plot	All plots are pointed correctly and are easy to see. Graph is constructed neatly.	All plots are pointed correctly and are easy to see.	All plots are pointed correctly.	Points are not plotted correctly OR there are extra plots added.
Title	Title is creative and clearly relates to the graph.	Title clearly relates to the problem being graphed.	A title is present at the top of the graph.	A title is not present.
Labeling of Axis	Both X and Y axis has clear and neat labels in the correct units.	Both X and Y axis has clear labels.	Both X and Y labels are mismatched to data.	The X and Y axis are not labeled.
Clusters and Outliers	All clusters and outliers have been neatly identified.	All clusters and outliers have been identified.	Some clusters and outliers have been identified.	Clusters and outliers have not been identified.
Line of Best Fit	A representative best fit line has been neatly drawn.	A representative best fit line is drawn.	A best fit line has been drawn.	No best fit line has been drawn.
Written Statements	Two detailed true statements have been written from the display data.	Two brief true statements have been written from the display data.	One true statement has been provided.	No statements have been provided.

Student Total_____/ 24

To get an **A range grade** you need to earn at least **22** points!

To get a **B range grade** you need to earn at least **20** points!

To get a **C range grade** you need to earn at least **17** points!

Data Collection Day 1 Hour_____

Group	Parachute Shape	Surface Area	Time	Egg Survival (optional)