

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Per: \_\_\_\_\_

## Scatter Plot Project – Bungee Bottle!

In this activity, you will measure from different heights how many rubber bands it takes a bottle to get as close to the ground as possible without hitting it. You will record your data on a coordinate plane, draw a line of best fit, and use the equation of your line to predict how many rubber bands it will take the bottle to reach the ground from the top of the bleachers in the football stadium.

- 1) Record your data in the table below. You must have at least 8 measurements.

# of Rubber Bands (x)	Height (y)

- 2) Plot the points above on a piece of graph paper. Be sure to label the axes and use an appropriate scale and interval.
- 3) Draw a line of best fit – Choose 2 points that, when connected, represent the average trend of your data.
- 4) Use your chosen points to write an equation for your line of best fit.
- 5) Predict – How many rubber bands will you need to get the bottle as close to the ground as possible when dropped from the top of the football bleachers? Be sure to show all your work!
- 6) Test it out!
- 7) Turn it in – Be sure to staple your graph paper to this sheet.