Name _____ Period _____ Date _____

Plotting and Analyzing Data Using Google Sheets and Desmos

1. Make your own copy of the Google Sheet

TOTAL CLASS DATA

2. Create TOTAL class data:

- Total rows
  =SUM(*range of values*)

3. Using the total class data

- Insert chart
- Customize
  - Title
  - Axis Labels
  - Change font and enlarge
- Screenshot your finished product, paste to the right, crop appropriately.

YOUR GROUP'S DATA

4. Using your group's data

- Cut and paste your own data from the table in a different place on the sheet so you can work with it
- Calculate decay factors
- Calculate average decay factor
  =AVERAGE(*range of values*)
- Take a screenshot of your data with decay factors calculated, and average decay factor.
- Paste Screenshot to the right.
  Crop appropriately.

RECREATE THE GRAPH IN #12 WITH SHEETS

5. Using your equations from #12

- Create a three column data table
    - # of Trials 1-15
    - # of Beads Remaining
      (Equation for Beads and autofill)
    - # of Skittles Remaining
      (Equation for Skittles and autofill)
- Create a chart. Highlight all three columns and you will get a graph with both curves on it.
- Customize
    - Title
    - Axis Labels
    - Change font and enlarge
- Screenshot your finished product, paste to the right, crop appropriately.

OPEN UP DESMOS

6. Using your equations from #12

- Plot the two equations
- Add axis labels
- Screenshot your finished product, paste to the right, crop appropriately.

7. Plot the Total Class Data using Desmos

- Plot data (using a table)
- Fit an exponential curve to the graph.
  (In the next box, enter $y_1 \sim a \cdot b^{x_1}$)
- Add axis labels
- Screenshot your finished product, paste below, crop appropriately.
- How does the decay factors compare to the one you calculated, and the one you expected?

8. Which tool do you like the best for creating scatterplots?

List three benefits of using Google Sheets? Be specific.

1.

2.

3.

List three benefits of using Desmos? Be specific.

1.

2.

3.