Name(s)_____ Period _____ Date _____

Activity Guide - Exploring Two Columns

Cross Tab

1. **Crosstab - Use the “Words” dataset**
   Use: Length & Part of Speech
   a. Chart - Copy and paste the chart you created in the space below

   b. Which part of speech shows up most often in this data set?

   c. Which part of speech seems to be longest, on average?

   d. Which part of speech seems to be shortest, on average?

   e. About how long is the "typical" noun? How can you tell?

2. **Crosstab - Use the “Favorite Classes” dataset**
   Use: Grade & Favorite Class
   a. Chart - Copy and paste the chart you created in the space below

   b. Which class do Seniors like the most?

   c. Which grade likes History the most?

   d. What is one other interesting pattern you can see in this diagram?

Scatter

1. **Scatter - Use the “US States” dataset**
   Use: Median Household Income & Percent Adult College Graduates
   a. Chart - Copy and paste the chart you created in the space below

   e. What is the range of incomes on this chart?

   f. What is the range of percentages of adult college graduates?

   g. Do you see a relationship between income and percent of adult college graduates? What does the relationship look like?

3. **Scatter - Use the “US States” dataset**
   Use: You pick the columns to compare
   In the States table find a combination of columns in a Scatter Plot that you think show an interesting pattern

   a. Chart - Copy and paste the chart you created in the space below

   b. What is the pattern that you observe in this data?

   c. Describe what this pattern might mean or indicate.

   d. Usually we can't be sure whether the pattern we observe in a scatter chart (a correlation) means that one of the columns is causing the other. Give one way you might do more research to try to investigate the cause of the pattern you found.