

**Don't be Scatterbrained about Scatter plots**  
**Teacher Worksheet**

**Grades 8-12**  
**2 – 45 minutes/1 – 90 minute**

**By Debra Crable**

**Activity Overview**

This activity will take students through generating real-world data, graphing data as a scatter plot, graphing a trend and line-of-best-fit and making predictions.

**Concepts**

Data analysis, Statistics, Linear relationships, Regression Line

**State Performance Indicators:**

*SPI 3102.5.1* Interpret displays of data to answer questions about the data set(s) (e.g., identify pattern, trends, and/or outliers in a data set).

*SPI 3102.5.3* Using a scatter plot, determine if a linear relationship exists and describe the association between variables.

*SPI 3102.5.4* Generate the equation of a line that fits linear data and use it to make a prediction.

**Teacher Preparation**

Before beginning the activity, introduce or review the vocabulary being used in the lesson: linear relationship, independent, dependent, correlation coefficient, and regression line. Students should have reviewed scatter plots and a table of values.

**Classroom Management**

This activity is recommended for students to complete the worksheet and the .tns file with a partner. It can be completed in a whole-class format.

**TI-Nspire Applications**

Lists & Spreadsheets, Graphs & Geometry, Calculator, Data & Statistics, & Notes