Due by the end of 10th grade.

Spreadsheet Wizard Level 2	Badge Graphic Goes Here

Related Badges: Spreadsheet Wizard 1, Spreadsheet Wizard 3

Expectations

You can :

- Select an appropriate chart type for a data set.
  - Histogram (population)
  - Scatter plot (correlation)
- Use title, axes, and legends as appropriate to describe all variables and units.
- For a scatter plot, generate a trendline and display the equation that describes a linear regression and r^2 value.

Why Earn This Badge?

Being able to compile and represent data is a highly sought after skill no matter what industry you are working in. Excel is one of the most commonly used tools for this task and will greatly set you apart from other applicants in the job market. It will also put you ahead of the curve in future courses in high school and college.

Due by the end of 10th grade.

How Do You Earn This Badge?

Evidence tasks:	Validation Criteria:
Artifact 1: Histogram ● A histogram chart generated in excel ○ Title of graph or table identifies independent and dependent variable. ○ Axes are labeled. ○ Axes have correct units. ○ Axes are scaled properly. ○ Data fills most of the graph space. ○ Data is properly placed. ○ Figure Caption for the graphed data describes the relationship between the independent and dependent variable and how the data was collected. ● Written reflection on how the data was obtained and justification for selecting this type of chart.	Graph is appropriate for the data as described in their reflection.
Artifact 2: Scatter ● A scatter plot generated in excel with a linear regression based trendline that displays an equation and an r^2 value. ○ Title of graph or table identifies independent and dependent variable. Axes are labeled. ○ Axes have correct units and are scaled properly. ○ Data fills most of the graph space. ○ Data is properly placed. ○ An appropriate line of best fit is drawn and an equation and r^2 value for that line is determined and displayed. ○ Figure Caption for the graphed data describes the relationship between the independent and dependent variable and how the data was collected. ● A written reflection on how the data was obtained and justification for selecting this type of chart.	Graph is appropriate for the data as described in their reflection.

Due by the end of 10th grade.

Artifact 3: Scatter (Different data set from Artifact 2) ● A scatter plot generated in excel with a linear regression based trendline that displays an equation and an r^2 value. ○ Title of graph or table identifies independent and dependent variable. Axes are labeled. ○ Axes have correct units. ○ Axes are scaled properly. ○ Data fills most of the graph space. ○ Data is properly placed. ○ An appropriate line of best fit is drawn and an equation and r^2 value for that line is determined and displayed. ○ Figure Caption for the graphed data describes the relationship between the independent and dependent variable and how the data was collected. ● A written reflection on how the data was obtained and justification for selecting this type of chart.	Graph is appropriate for the data as described in their reflection.

Resources:

Coming Soon!