

Unit Plan by Prioritized Standards

Content Area	Math
Grade/Course	8th grade Math
Unit of Study	Scatter plots, two-way tables, and volume
Duration of Unit	12 days (3 weeks)

Insert priority standards below (include code). **CIRCLE or Highlight** the **SKILLS** that students need to be able to do and **UNDERLINE** the **CONCEPTS** that students need to know. (address “supporting” standards in daily lesson plans)

MGSE8.F.4 **Construct** a function to model a linear relationship between two quantities. **Determine** the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. **Interpret** the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.

MGSE8.F.5 **Describe qualitatively** the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). **Sketch a graph** that exhibits the qualitative features of a function that has been described verbally.

MGSE8.SP.4 **Understand** that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table.

a. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects.

b. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores?

Skills (what must be able to do)	Concepts (what students need to know)	DOK Level / Bloom's
Construct	Functions to model a linear relationship between two quantities.	
Interpret	Rate of change and initial value of the function	
Describe qualitatively	Functional relationship between two quantities by analyzing a graph	
Sketch a graph	Exhibit the qualitative features of a function that has been described verbally	
Understand	Patterns of association can also be seen in bivariate categorical data	

Step 5: Determine BIG Ideas (enduring understandings students will remember long after the unit of study)	Step 6: Write Essential Questions (these guide instruction and assessment for all tasks. The big ideas are answers to the essential questions)
Draw and interpret a line of best fit Analyze a two-way table	How can I determine if there is an association between two given sets of data? How can you construct and interpret two-way tables?
Essential Unit Vocabulary	
Scatter plot Line of best fit Bivariant data Outlier Quantitative Qualitative	
Next step, create assessments and engaging learning experiences	