8th Grade Mathematics

Associations in Data \ Unit 6

Unit Overview

This unit teaches students how to explore and analyze patterns in data with two variables. They will learn how to make and interpret scatter plots and two-way tables. Students will look for patterns like groupings, outliers, relationships between two quantities, and whether they are straight or curved. They will also practice drawing a straight line for data that shows a linear relationship and understand how to use the slope and intercept to solve real-world problems. Finally, the unit covers two variable and two categorical data and how to interpret two-way tables to find possible connections between the data.

Significant concepts/content/skills

In this unit, we will answer the following questions: What are the different types of associations that data can show, and how do we identify them? In what ways can we use two-way tables to analyze categorical data? What can we learn from patterns in data?

To answer these big questions, we will spend our time learning the following content and skills:

Concepts and Procedures

- I can interpret scatter plots and identify trends, clusters, and outliers.
- I can construct scatter plots to represent bivariate measurement data.
- I can calculate and interpret the slope of the line of best fit as a rate of change.

Communicating Reasoning

- I can understand and explain the meaning of correlation in the context of bivariate measurement data.

Problem-Solving

- I can analyze patterns of association in bivariate data using trend lines and construct scatter plots to represent bivariate measurement data.

Assessments & Pacing

This unit is scheduled to be 8 classes long, with the end-of-unit assessment tentatively taking place during the week of May 4th -8th.

Should I have any questions or concerns about your child's progress during this unit, I will contact you. Should you have questions or concerns, please email me at dgilbert@acsamman.edu.jo