

What questions will we ask ourselves?

Unit 1: Data and Statistics

- What is the purpose of displaying data?
- How does selection of a sample affect conclusions based on the sample?
- Which measure of central tendency is most appropriate in a given situation?
- How can the data representation influence conclusions?

Unit 2AB: Decimal Operations and Applications / Decimal and Fraction Connections and Applications

- Why are specific units and tools used to measure different attributes?
- What determines a reasonable estimation for a given situation?
- What is the purpose of estimation?
- How do operations with decimals compare to operations with whole numbers?
- How can estimation skills and algorithms reinforce one another?
- What determines an appropriate representation of a number?

Important Vocabulary

Frequency Table	Scale	Interval
Sample	Population	Clarify
Justify	Misleading	Central Tendency
Mean	Median	Mode
Estimate	Simplify	Expression
Equivalent		

Why are we learning this?

Unit 1: Data and Statistics

- To understand how choices in data collection and representation affect their interpretation and use.

Unit 2AB: Decimal Operations and Applications / Decimal and Fraction Connections and Applications

- To understand how to select standard measurement tools and units based on a real world situation.
- To understand how using estimation can produce approximate results.
- To understand that multiplication doesn't always result in a larger number and division doesn't always result in a smaller number.
- To understand how fractions, decimals, and percents can be used interchangeably.

How will we learn these things?

Unit 1: Data and Statistics

- By conducting and analyzing the results of statistical investigations.
- By using various formats to interpret, organize, and display data.
- By identifying and comparing different ways of selecting a sample.
- By analyzing data to construct arguments and support conclusions.
- By justifying which measure of central tendency best represents a data set.
- By exploring the misuses of statistical and numerical data.

Unit 2AB: Decimal Operations and Applications / Decimal and Fraction Connections and Applications

- By selecting tools and units to measure accurately in given situations.
- By comparing, converting, and estimating units of measure.
- By using estimation and mental math to solve problems with fractions, decimals, and percents and explaining the reasoning involved.
- By computing with decimals.
- By determining equivalent ratios, decimals, and percents.