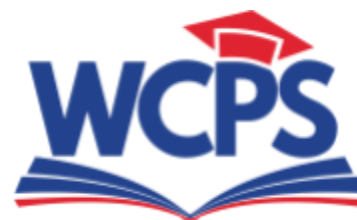


Unit 6 Unit Plan

MS Algebra 1

2025 - 2026



Unit 6: Statistics & Accelerated Standards Review

Timeline: March 4th - March 31st and 17 of Instructional Days

DCA Date Range: _____ March 31 - April 2nd _____

Unit Overview

Unit 6 will focus on statistics and other standards that accelerated students may be lacking. Students will use data to plot points to create a scatter plot, determine the correlation of a scatter plot, and write a linear regression line. Students will also use technology of help find the line of best fit, plot residuals and interpret residuals,

Unit Standards

KY.8.SP.1

Construct and interpret scatter plots for bivariate numerical data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association and nonlinear association.

KY.8.SP.2

Know that lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a line and informally assess the model fit by judging the closeness of the data points to the line.

KY.8.SP.3

Use the equation of a linear model to solve problems in the context of bivariate numerical data, interpreting the slope and Intercept.

KY.HS.SP.6

Represent data on two quantitative variables on a scatter plot and describe how the explanatory and response variables are related.

- Calculate an appropriate mathematical model, or use a given mathematical model, for data to solve problems in context.
- Informally assess the fit of a model (through calculating correlation for linear data, plotting, calculating and/or analyzing residuals).

KY.HS.SP.8

Understand the role and purpose of correlation in linear regression.

- Use technology to compute correlation coefficient of a linear fit.
- Interpret the meaning of the correlation within the context of the data.
- Describe the limitations of correlation when establishing causation.

KY.HS.N.4

Use units in context as a way to understand problems and to guide the solution of multi-step problems; ★

	a. Choose and interpret units consistently in formulas; b. Choose and interpret the scale and the origin in graphs and data displays.
Unit Vocabulary	• Scatter Plot • Correlation • Correlation Coefficient • Association • Linear Regression • Line of Best Fit • Residual
i-Ready Standards Mastery Assessments (Not Required)	USE I - READY STANDARDS MASTERY ASSESSMENTS TO FIND ASSESSMENTS THAT MATCH KY STANDARDS FOR THIS UNIT - LIST ANY THAT MATCH THIS UNIT. INCLUDE IF FORM A OR B AS WELL. Scatter Plots Form A and B Scatter Plots and Linear Models Form A and B Solve Problems with Linear Models Form A and B
Summative Assessment	

Unit #: Unit Name Unit Instructional Resources		
IM Unit Lessons	Lesson Name	Instructional Notes
3.4		
3.5		
3.6		
3.7		
3.8		
3.9		
3.10		
		https://mathbitsnotebook.com/Algebra1/StatisticsReg/ST2Residuals.html shows what residual is
		Residual plots https://teacher.desmos.com/activitybuilder/custom/6259c751bd5831051698172d?collections=61bcc95700581818dff1d4d7%2C61bcc9bd587cf258b916a465

Additional Supports and Resources for Teaching Unit Standards		
i - Ready Tools for Instruction	i - Ready Teacher Toolbox	Other Resources / Rich Task
On your i-Ready dashboard • click Assess and Teach • Click Resources • Tools for Instruction - Math • Domain - choose Number Operations and Measurement and Data • Grade Level - Choose the grade level that you need ○ You may need to go lower than 8th grade for support • Click the lesson that you need to teach		https://hailstonesequences.com/index.php/category/algebra/ This has bad graphs to show https://teacher.desmos.com/activitybuilder/custom/620d1847015a6b18d6337944 Line of best fit Practice causation with https://teacher.desmos.com/desbooks/asset/assets/desbook/A1/3/A1.3.16-cards.pdf