SASD Curriculum Map   Content Area: <u>Mathematics</u>   Course: <u>8th Grade Algebra 1</u>

UNIT Title/Focus	Data Analysis / Statistics and Probability		TIME OF YEAR/LENGTH *(E.G. Oct-Nov/3 weeks)*	Sept-Oct / 4 Weeks Sept-May / 34 Weeks (Study Island Rotations)
DRIVING QUESTION(S)	How will you be able to make predictions about, or write an equation for, a line of best fit? How will you read and/or interpret different kinds of data sets/data displays? How will you use probability to determine outcomes of compound events?			
CONTENT VOCABULARY	**Bivariate Data; Box and Whisker Plot; Clustering; Experimental Probability; Inter-quartile Range; Line Plot; Lower Extreme; Lower Quartile; Median; Outlier; Range; Stem and Leaf Plot; Theoretical Probability; Two-Way Table; Upper Extreme; Upper Quartile.**			

TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Best-Fit Lines / Best-Fit Linear Models	**A1.2.2.2.1** Draw, identify, find, and/or write an equation for a line of best fit for a scatter plot. **A1.2.3.2.3** Make predictions using the equations or graphs of best-fit lines of scatter plots. **M08.D-S.1.1.2** For scatter plots that suggest a linear association, identify a line of best fit by judging the closeness of the data points to the line. **M08.D-S.1.1.3** Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.	Students will be able to draw, find, make predictions about, and/or write an equation for a line of best-fit.	Repetition/practice Frequent checks for understanding Quizzes In-Class Assignments "Anchor" Flashcards / End of Year "Anchors" Test "Vocabulary" Flashcards / frequent Vocabulary Quizzes DI Activities	Warm-up Openers Study Island Calculator Textbook "Notes" Handouts Worksheets "Peers" helping "Peers"

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Measures of Dispersion and Central Tendency	**A1.2.3.1.1** Calculate and/or interpret the range, quartiles, and interquartile range of data. **A1.2.3.2.1** Estimate or calculate to make predictions based on a circle, line, bar graph, measures of central tendency, or other representations.	Students will be able to find and/or interpret the measures of dispersion and central tendency for different types of data sets.		
Data Displays and Analysis / Scatter Plots	**A1.2.3.2.2** Analyze data, make predictions, and/or answer questions based on displayed data (box-and-whisker plots, stem-and-leaf plots, scatter plots, measures of central tendency, or other representations).	Students will be able to analyze, make predictions about, construct, and/or interpret different types of data displays and scatter plots.		

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TOPIC	**ELIGIBLE CONTENT/ STANDARDS**	**OBJECTIVES**	**ASSESSMENT**	**RESOURCES**
	A1.2.3.2.3 Make predictions using the equations or graphs of best-fit lines of scatter plots. **A1.2.3.2.1** Estimate or calculate to make predictions based on a circle, line, bar graph, measures of central tendency, or other representations. **A1.2.2.2.1** Draw, identify, find, and/or write an equation for a line of best fit for a scatter plot. **M08.D-S.1.1.1** Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative correlation, linear association, and nonlinear association.			

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TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Probability – Compound Events	**A1.2.3.3.1** Find probabilities for compound events (e.g., find probability of red and blue, find probability of red or blue) and represent as a fraction, decimal, or percent.	Students will be able to use both experimental and theoretical probability to find the probabilities for compound events.		
Two-Way Tables	**M08.D-S.1.2.1** Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible associations between the	Students will be able to construct and interpret a two-way table to analyze bivariate data associations.		

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	two variables.			