**Content Area:** Mathematics

UNIT Title/Focus	Data Analysis / Statistic	es 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.					
ТОРІС	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, ma and/or write an equation for a line of		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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TOPIC	ELIGIBLE CONTENT/ STANDARDS OBJECTIVES		ASSESSMENT	RESOURCES	
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 in dispersion and central tendency for disets.	•		
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 construct, and/or interpret different t scatter plots.	•		

Content Area: Mathematics

How will you read How will you use p  CONTENT  How will you use p  Bivariate Data; Bo	ng hs atter to ed	ts/data displays? bound events? ntal Probability; Inter-quartile Rang bbability; Two-Way Table; Upper Ex		e; Lower Quartile;  RESOURCES
TOPIC  ELIGIBLE CONTENT STANDARDS  A1.2.3.2.3  Make predictions using the equations or graph of best-fit lines of scaplots.  A1.2.3.2.1  Estimate or calculated make predictions base on a circle, line, bare graph, measures of central tendency, or representations.  A1.2.2.2.1  Draw, identify, find, and/or write an equation of the state of the scatter plot.  M08.D-S.1.1.1	ange; Stem and Leaf Plot; Theoretical Pro  OBJECT  ong hs atter  to ed	obability; Two-Way Table; Upper E	xtreme; Upper Quartile.	
A1.2.3.2.3  Make predictions usi the equations or grap of best-fit lines of sc plots.  A1.2.3.2.1  Estimate or calculate make predictions bas on a circle, line, bar graph, measures of central tendency, or representations.  A1.2.2.2.1  Draw, identify, find, and/or write an equator of a line of best fit fine scatter plot.  M08.D-S.1.1.1	ng hs atter to ed	TIVES	ASSESSMENT	RESOURCES
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A1.2.2.2.1 Draw, identify, find, and/or write an equa for a line of best fit f scatter plot.  M08.D-S.1.1.1	other			
Draw, identify, find, and/or write an equator a line of best fit f scatter plot.  M08.D-S.1.1.1				
and/or write an equator for a line of best fit for scatter plot.  M08.D-S.1.1.1				
for a line of best fit f scatter plot.  M08.D-S.1.1.1	ion			
M08.D-S.1.1.1				
Construct and interpr				
scatter plots for bivar				
measurement data to				
investigate patterns of association between				
quantities. Describe	WO			
patterns such as				
clustering, outliers,				
positive or negative				
correlation, linear				
association, and nonlinear association				

Content Area: Mathematics

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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
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 probability to find the probabilities for			
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 table to analyze bivariate data associa			

**Data Analysis / Statistics and Probability** 

**UNIT Title/Focus** 

DRIVING

QUESTION(S)

**Content Area:** Mathematics

Course: 8<sup>th</sup> Grade Algebra 1 TIME OF YEAR/LENGTH Sept-Oct / 4 Weeks Sept-May / 34 Weeks (Study Island Rotations) (E.G. Oct-Nov/3 weeks) 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?

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ТОРІС	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES		
	two variables.					

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