



Unit 8: Bivariate Data	Time Frame: 14 Days (April 18 – 29)
Content Standards	Standards for Mathematical Practice
Major Standards	(1) Make sense of problems and persevere in solving
	them.
Supporting Standards	(2) Reason abstractly and quantitatively.
8.SP.1 Construct and interpret scatter plots for bivariate measurement data to	(3) Construct viable arguments and critique the
investigate patterns of association between two quantities. Describe patterns such as	reasoning of others.
clustering, outliers, positive or negative association, linear association, and nonlinear	(4) Model with mathematics.
association.	(5) Use appropriate tools strategically.
	(6) Attend to precision.
8.SP.2 Know that straight lines are widely used to model relationships between two	(7) Look for and make use of structure.
quantitative variables. For scatter plots that suggest a linear association, informally	(8) Look for and express regularity in repeated
fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.	reasoning.
	8.SP.1 – MP 2, 4, 5, 6, 7
8.SP.3 Use the equation of a linear model to solve problems in the context of	8.SP.2 – MP 2, 4, 5, 6, 7
bivariate measurement data, interpreting the slope and intercept. For example, in a	8.SP.3 – MP 2, 4, 5, 6, 7
linear model for a biology experiment, interpret a slope of 1.5 cm/hr as meaning that an additional hour of sunlight each day is associated with an additional 1.5 cm in mature plant height.	8.SP.4 – MP 2, 3, 4, 5, 6, 7
8.SP.4 Understand that patterns of association can also be seen in bivariate	
categorical data by displaying frequencies and relative frequencies in a two- way	
table. 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 association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores?

Additional Standards

Pre-requisite Standards

8.SP.1

- Compute averages, estimates, proportions, and ratios
- Basic operations with rational numbers.
- Read, observe and analyze tables, charts, graphs, and scatter plots.

8.SP.2

Read, observe and analyze tables, charts, graphs, and scatter plots.

8.SP.3

- Identify, collect, organize, classify, and observe data from the coordinate plane pertaining to slope and intercepts when given different forms of equations or a t-table.
- Graph on the coordinate plane.
- Identify intercepts.
- Find slope of a line.
- Know and understand the relationship between functions, t-tables, and





ordered pairs.

Solve linear equations.

8.SP.4

- Estimate
- Read, observe and analyze tables, charts, graphs, and scatter plots.
- Order and compare real numbers.
- Identify terms about temperature and calculate temperature.

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic	Lesson Topic	Lesson Topic	Lesson Topic	Lesson Topic
Model and interpret	Construct and Interpret	Use line of best fit to solve	Use the equation of a	Interpret and construct
bivariate measurement	scatter plots and describe	problems	linear model to solve	scatter plots and describe
data	data using linear functions.		problems using bivariate	slope and intercept using
		Standard Ref	data	linear functions
Standard Ref	Standard Ref	8.SP.3		
8.SP.1	8.SP.2		Standard Ref	Standard Ref
		Resource/Strategy	8.SP.1,8.SP.2, 8.SP.3,	8.SP.1,8.SP.2, 8.SP.3
Resource/Strategy	Resource/Strategy	https://docs.google.com/d	8.SP.4	
https://docs.google.com/d	https://docs.google.com/d	ocument/d/1uM3pZuKUJu		Resource/Strategy
ocument/d/1uM3pZuKUJu	ocument/d/1uM3pZuKUJu	gPiGKTLbQXvJAPt qod2PYi	Resource/Strategy	https://docs.google.com/d
gPiGKTLbQXvJAPt qod2PYi	gPiGKTLbQXvJAPt qod2PYi	cWIKkUapM8/edit	https://docs.google.com/d	ocument/d/1uM3pZuKUJu
cWIKkUapM8/edit	cWIKkUapM8/edit		ocument/d/1uM3pZuKUJu	gPiGKTLbQXvJAPt qod2PYi
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Lesson 6				



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16	AC.	SCH	9

Lesson Topic Understand, construct, and interpret two-way tables.		
Standard Ref 8.SP.4		
Resource/Strategy https://docs.google.com/d ocument/d/1uM3pZuKUJu gPiGKTLbQXvJAPt qod2PYi cWIKkUapM8/edit		