Unit 8: Two-Variable Data Analysis

8.00	Prerequisite Skills			
Learning Goals	I know how to create and use scatter plots.	1	2	3
	I can use technology to create a scatter plot.	1	2	3
	I can use linear models to solve problems.	1	2	3
	I can identify bias.	1	2	3
	I can use summary statistics to analyse one-variable data.	1	2	3
8.10	**Line of Best Fit**			
Learning Goals	I can classify a linear correlation between two variables.	1	2	3
	I can determine a correlation coefficient using technology.	1	2	3
	I can produce a line of best fit using linear regression.	1	2	3
8.20	**Cause and Effect**			
Learning Goals	I can distinguish between correlation and causality.	1	2	3
	I can identify the type of relationship between two variables.	1	2	3
8.30	**Dynamic Analysis of Two-Variable Data**			
Learning Goals	I can identify outliers and account for their impact on a data trend.	1	2	3
	I can recognize the presence of extraneous variables.	1	2	3
	I can identify a hidden variable and account for its impact on a correlation.	1	2	3
8.40	**Uses and Misuses of Data**			
Learning Goals	I can recognize that the same data can be presented in different ways.	1	2	3
	I can see that the way data are presented can have an impact on how the data are interpreted.	1	2	3
	I can recognize when, how, and why data are deliberately distorted in order to influence the perception of the reader.	1	2	3
8.50	**Advanced Techniques for Data Analysis**			
Learning Goals	I can organize and display data using a variety of tools and strategies.	1	2	3
	I can analyse various representations of data.	1	2	3
8.60	**Review**			
8.65	**Extra Review (if necessary)**			
8.70	**Test**			

After each lesson grade yourself from one to three on each learning goal based on the criteria below. This will help you to build a review plan for the end of unit assessment.

1. I need extra help with this concept
2. I need more practice with this concept
3. I can teach this concept to someone else

Unit 8 – Two-Variable Data Analysis

8.00 – MHR Page 380 #s 1 – 9

8.10 – MHR Page 390 #s 1 – 6, 9, 10 & 13

8.20 – MHR Page 399 #s 1 – 9, & 11 – 14

8.30 – MHR Page 413 #s 1 – 14

8.40 – MHR Page 422 #s 1 – 8

8.50 – MHR Page 431 #s 1 – 4 & 12

8.60 – MHR Page 434 #s 1 – 12

8.65 – MHR Page 436 #s 1 – 7

8.70 – **TEST – Two-Variable Data Analysis**