Unit 6: One-Variable Data Analysis

6.00	Prerequisite Skills			
Learning Goals	I know how to calculate with measures of central tendency.	1	2	3
	I can identify the different types of data.	1	2	3
	I know how to use and read a variety of graphs to display data.	1	2	3
6.10	**Measures of Central Tendency**			
Learning Goals	I can interpret the mean, median, and mode of a set of data.	1	2	3
	I can choose the measure of central tendency that best describes the data.	1	2	3
6.20	**Measures of Spread**			
Learning Goals	I can describe the variability in a sample or population using measures of spread.	1	2	3
	I can calculate the range.	1	2	3
	I understand how to use quartiles and percentiles to analyse data.	1	2	3
6.30	**Standard Deviation and z-Scores**			
Learning Goals	I can use technology to calculate the variance and standard deviation of a data set.	1	2	3
	I can calculate and understand the significance of a z-score.	1	2	3
	I can relate the positive or negative scores to their locations in a histogram.	1	2	3
	I can develop significant conclusions about a data set.	1	2	3
6.40	**Interpreting Statistical Summaries**			
Learning Goals	I can interpret statistical summaries to describe a one-variable data set and to compare two related one-variable data sets.	1	2	3
	I understand whether the data presented are valid and reliable.	1	2	3
	I can describe how statistical summaries can misrepresent one-variable data.	1	2	3
	I can make inferences as well as make and justify conclusions from statistical summaries of one-variable data.	1	2	3
	I can interpret statistics in the media, assess the validity of conclusions made, and explain how statistics are used to promote a certain point of view.	1	2	3
6.50	**Analysing Data from Statistics Canada**			
Learning Goals	I can collect data through secondary sources.	1	2	3
	I can generate, using technology, the relevant graphical summaries of one-variable data.	1	2	3
	I can interpret statistical summaries.	1	2	3
	I can assess the validity of conclusions presented in the media.	1	2	3
	I can draw conclusions from the analysis of data and evaluate the strength of the evidence.	1	2	3
6.60	**Review**			
6.65	**Extra Review (if necessary)**			
6.70	**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 6 – One-Variable Data Analysis

6.00 – MHR Page 250 #s 1 – 6

6.10 – MHR Page 263 #s 1 – 5, 7, 8, 10 & 13

6.20 – MHR Page 275 #s 1 – 8

6.30 – MHR Page 286 #s 1 – 6, 10 & 11

6.40 – MHR Page 298 #s 1 – 4, 6, 8, 13 & 16

6.50 – MHR Page 305 #s 1 – 4, 6 – 8 & 11

6.60 – MHR Page 308 #s 1 – 11

6.65 – MHR Page 311 #s 1 – 8, 10 & 11

6.70 – **TEST – One-Variable Data Analysis**