



Mathematics Grade 7 Statistics and Probability (SP)				
Outcome	1 – Little Evidence With help, I understand parts of the simpler ideas and do a few of the simpler skills.	2 – Partial Evidence I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	3 – Sufficient Evidence I understand the more complex ideas and can master the complex skills that are taught in class. I achieve the outcome.	4- Extensive Evidence I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
SP7.1 I can demonstrate an understanding of the measures of central tendency and range for sets of data. [C, CN, PS, R, T]	<ul style="list-style-type: none"> I can explain what mean, median, mode, and range are. 	<ul style="list-style-type: none"> Given a list of numbers, I can determine the mean, median, mode, and range of the data. 	<ul style="list-style-type: none"> Given a problem involving a set of data, I can explain which measure of central tendency would be most appropriate to use, and defend my position. 	<ul style="list-style-type: none"> I am able to solve and create complex word problems that involve measures of central tendency.
	<ul style="list-style-type: none"> I can explain what an outlier is. 	<ul style="list-style-type: none"> Given a list of numbers, I can identify any outliers and explain why I included or excluded them. 	<ul style="list-style-type: none"> I am able to explain an outlier's effect on a set of data. 	<ul style="list-style-type: none"> I can decide whether outliers need to be included in a list of data, and justify my decision.
Comments				



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SP7.2 Demonstrate an understanding of circle graphs. [C, CN, PS, R, T, V]	<ul style="list-style-type: none"> With help, I can identify some the common attributes of circle graphs, including: <ul style="list-style-type: none"> title, label or legend; sum of the central angles data reported as a percent of the total, sum of the percents being equal to 100%. 	<ul style="list-style-type: none"> I can identify several the common attributes of circle graphs, including: <ul style="list-style-type: none"> title, label or legend; sum of the central angles data reported as a percent of the total, sum of the percents being equal to 100%. 	<ul style="list-style-type: none"> I can identify all the common attributes of circle graphs, including: <ul style="list-style-type: none"> title, label or legend; sum of the central angles data reported as a percent of the total, sum of the percents being equal to 100%. 	<ul style="list-style-type: none"> I can compare the appearance and content of circle graphs in a variety of print and electronic media.
	<ul style="list-style-type: none"> With help, I can create and label with some accuracy a circle graph to display a set of data. 	<ul style="list-style-type: none"> I can create and label with some accuracy a circle graph to display a set of data. 	<ul style="list-style-type: none"> I can create and accurately label a circle graph to display a set of data. 	<ul style="list-style-type: none"> I can compare the appropriate use of the circle graphs to the use of other types of graphs (e.g. bar graphs, double-bar graphs, line graphs, and graphs of discrete data).
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SP7.3 Demonstrate an understanding of theoretical and experimental probabilities for two independent events where the combined sample space has 36 or fewer elements. [C, ME, PS R, T]	<ul style="list-style-type: none"> I am able to explain what the word “outcome” means. 	<ul style="list-style-type: none"> I am able to provide at least one of the possible outcomes of two independent events. (Ex. Flipping a coin and pulling one of four different coloured marbles out of a bag.) 	<ul style="list-style-type: none"> I can create a table or a tree diagram to show the sample space for the all of the outcomes of two independent events. 	<ul style="list-style-type: none"> I can solve problems based on the sample space of at least two independent events.
	<ul style="list-style-type: none"> I am able to describe what theoretical probability and experimental probability mean. 	<ul style="list-style-type: none"> I can make a list of all of the possible outcomes of two independent events (with 8 or fewer outcomes), as well as a list of the actual outcomes for completing the experiment 8 times. 	<ul style="list-style-type: none"> In an experiment with two independent events and 36 or fewer outcomes, I can determine the theoretical AND experimental probability, AND I will be able to compare the results. 	<ul style="list-style-type: none"> I can create and conduct my own probability experiment AND provide a detailed analysis of the results.