Mathematics Grade 6
Statistics and Probability (SP)

Outcome	1 - Beginning The student is having difficulty demonstrating an understanding of the concept.	2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4- Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.
SP6.1 **I can extend understanding of data analysis to include:** ○ **line graphs** ○ **graphs of discrete data** ○ **data collection through questionnaires, experiments, databases, and electronic media** ○ **interpolation and extrapolation.** **[C, CN, PS, R, V, T]**	• I can describe patterns I seen in a given line graph.	• I can construct **OR** label line graphs to represent a table of given data.	• I can construct **AND** label **line graphs** to represent a table of given data.	• I can generate a question, perform an experiment, record the results the results, graph the data using a line graph, **AND** draw a conclusion.
	• I can describe patterns I seen in a given graph of discrete data.	• I can construct **OR** label a graph of discrete data to represent a table of given data.	• I can construct **AND** label a graph of discrete data to represent a table of given data.	I can generate a question, perform an experiment, record the results the results, graph the data using a graph of discrete data, **AND** draw a conclusion.
	• I can **identify a** method(s) of collecting data (questionnaires, experiments, databases, electronic media) that I select to answer a question I generate.	• I can **describe a** method(s) of collecting data (questionnaires, experiments, databases, electronic media) that I select to answer a question I generate.	• **I can justify my choice of data collection method(s) (questionnaires, experiments, databases, electronic media) to answer a question I generate.**	• I can **point out the advantages and disadvantages** of various methods of collecting data to answer a question I generate **(questionnaires, experiments, databases, electronic media).**
	• I can interpret the line graph **OR** graphs of discrete data points (through interpolation **OR** extrapolation) for a situation.	• I can interpret the line graph **AND** graphs of discrete data points (through interpolation **OR** extrapolation)for a situation.	• I can interpret the line graph **AND** graphs of discrete data points (through interpolation **AND** extrapolation)for a situation.	• I can interpret the line graph or graphs of discrete data points (through interpolation **AND** extrapolation)and **use that information to make decisions or solve problems.**
Comments				

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SP6.2 **I can demonstrate understanding of probability by:** ○ **determining sample space** ○ **differentiating between experimental and theoretical probability** ○ **determining the theoretical probability** ○ **determining the experimental probability** ○ **comparing experimental and theoretical probabilities.** **[C, PS, R, T]**	• **With help**, I can determine the sample space for a given probability.	• I can determine the sample space for **a given probability experiment.**	• I can **determine the sample space** for a probability experiment I choose.	• I can **determine the sample space** for a probability experiment I choose, and explain my reasoning.
	• With help, I can **determine** the theoretical **OR** experimental probability from a given experiment.	• I can **determine** the theoretical **OR** experimental probability from a given experiment.	• I can **determine** the theoretical **AND** experimental probability from a **given experiment**.	• I can **design** a probability experiment (coin toss, dice roll, etc.), conduct the experiment, determine the sample space, predict the outcome, and determine the theoretical and experimental probability for the event.
	• I can **describe** theoretical probability **OR** experimental probability.	• I can **explain the difference between** theoretical probability and experimental probability.	• I can **compare** the theoretical results of an experiment to the experimental results.	• I can **suggest the importance of knowing** the difference between theoretical results and experimental results.
Comments:				