Mathematics Grade 5
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.
SP5.1 **Differentiate between first-hand and second-hand data.** **[C, R, T, V]**	• I can give examples of first-hand data **OR** second-hand data.	• I can give examples of first-hand data **AND** second-hand data.	• I can **explain the difference between first-hand data and second-hand data.**	• I can **compare the uses** of first-hand data and second-hand data.
	• **With help,** I can formulate questions that can best be answered using **first-hand data OR** questions that can best be answered using second-hand data.	• I can formulate questions that can best be answered using first-hand data **AND** questions that can best be answered using second-hand data.	• I can formulate questions that can best be answered using first-hand data **AND** questions that can best be answered using second-hand data, **AND** describe how that data could be collected.	• I can formulate questions that can best be answered using first-hand data **AND** questions that can best be answered using second-hand data, **AND** describe how that data could be collected, **AND answer the question.**
Comments				

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SP5.2 **Construct and interpret double bar graphs to draw conclusions. [C, PS, R, T, V]**	• I can identify the attributes **OR** purposes of double bar graphs **OR** bar graphs.	• I can **describe** the attributes **AND** purposes of double bar graphs **OR** bar graphs.	• I can **compare** the attributes **AND** purposes of double bar graphs **AND** bar graphs.	• I can compare the attributes **AND** purposes of double bar graphs **AND** bar graphs using situations and data that are meaningful to me, family, or my community.
	• **With help**, I can construct double bar graphs, without the use of technology, based upon data relevant to me, my family, or my community.	• I can **construct double bar graphs**, without the use of technology, based upon data relevant to me, my family, or my community.	• I can c**onstruct double bar graphs**, without the use of technology, based upon data relevant to me, my family, or my community, **AND** use **the graph to answer questions.**	• I can construct double bar graphs, without the use of technology, based upon data relevant to me, my family, or my community, **AND** use the graph to answer questions **AND to pose questions.**
Comments				

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SP5.3 **Describe, compare, predict, and test the likelihood of outcomes in probability situations. [C, CN, PS, R]**	• I can **explain what an outcome is**, and give examples.	• I can **categorize outcomes** as certain, possible or impossible.	• I can **conduct experiments to determine** if an outcome is certain, possible or impossible.	• I can design **AND** conduct experiments to determine if an outcome is certain, possible or impossible.
	• I can give **examples of situations** that are less likely, equally likely, or more likely to occur.	• I can **categorize outcomes** as less likely, equally likely, or more likely to occur.	• I can **identify all possible outcomes** in probability experiment and classify the outcomes **as less likely, equally likely, or more likely to occur.**	• I can identify all possible outcomes in a probability experiment and classify the outcomes as less likely, equally likely, or more likely to occur, **and explain the reasoning.**
	• **With help**, I can design a probability experiment to determine the likelihood of a specific outcome.	• I can **design a probability experiment** to determine the likelihood of a specific outcome.	• I can **design AND conduct** a probability experiment to determine the likelihood of a specific outcome.	• I can design and conduct a probability experiment to determine the likelihood of a specific outcome **AND** explain what the results tell about the outcome including whether the outcome is impossible, possible, or certain.
Comments				