



<b>Mathematics Grade 6</b> <b>Statistics and Probability (SP)</b>				
<b>Outcome</b>	<b>1 – Little Evidence</b> With help, I understand parts of the simpler ideas and do a few of the simpler skills.	<b>2 – Partial Evidence</b> I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	<b>3 – Sufficient Evidence</b> I understand the more complex ideas and can master the complex skills that are taught in class. <b>I achieve the outcome.</b>	<b>4- Extensive Evidence</b> 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.
<b>SP6.1</b> <b>I can extend understanding of data analysis to include:</b> <ul style="list-style-type: none"> <li>○ line graphs</li> <li>○ graphs of discrete data</li> <li>○ data collection through questionnaires, experiments, databases, and electronic media</li> <li>○ interpolation and extrapolation.</li> </ul> <b>[C, CN, PS, R, V, T]</b>	<ul style="list-style-type: none"> <li>• I can describe patterns I seen in a given line graph.</li> </ul>	<ul style="list-style-type: none"> <li>• I can construct <b>OR</b> label line graphs to represent a table of given data.</li> </ul>	<ul style="list-style-type: none"> <li>• I can construct <b>AND</b> label <b>line graphs</b> to represent a table of given data.</li> </ul>	<ul style="list-style-type: none"> <li>• I can generate a question, perform an experiment, record the results the results, graph the data using a line graph, <b>AND</b> draw a conclusion.</li> </ul>
	<ul style="list-style-type: none"> <li>• I can describe patterns I seen in a given graph of discrete data.</li> </ul>	<ul style="list-style-type: none"> <li>• I can construct <b>OR</b> label a graph of discrete data to represent a table of given data.</li> </ul>	<ul style="list-style-type: none"> <li>• I can construct <b>AND</b> label a graph of discrete data to represent a table of given data.</li> </ul>	I can generate a question, perform an experiment, record the results the results, graph the data using a graph of discrete data, <b>AND</b> draw a conclusion.
	<ul style="list-style-type: none"> <li>• I can <b>identify a</b> method(s) of collecting data (questionnaires, experiments, databases, electronic media) that I select to answer a question I generate.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>describe a</b> method(s) of collecting data (questionnaires, experiments, databases, electronic media) that I select to answer a question I generate.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>justify my choice of data collection method(s) (questionnaires, experiments, databases, electronic media) to answer a question I generate.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>point out the advantages and disadvantages</b> of various methods of collecting data to answer a question I generate <b>(questionnaires, experiments, databases, electronic media).</b></li> </ul>



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	<ul style="list-style-type: none"><li>I can interpret the line graph <b>OR</b> graphs of discrete data points (through interpolation <b>OR</b> extrapolation) for a situation.</li></ul>	<ul style="list-style-type: none"><li>I can interpret the line graph <b>AND</b> graphs of discrete data points (through interpolation <b>OR</b> extrapolation)for a situation.</li></ul>	<ul style="list-style-type: none"><li>I can interpret the line graph <b>AND</b> graphs of discrete data points (through interpolation <b>AND</b> extrapolation)for a situation.</li></ul>	<ul style="list-style-type: none"><li>I can interpret the line graph or graphs of discrete data points (through interpolation <b>AND</b> extrapolation)and <b>use that information to make decisions or solve problems.</b></li></ul>
Comments				



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<b>SP6.2</b> <b>I can demonstrate understanding of probability by:</b> <ul style="list-style-type: none"> <li>determining sample space</li> <li>differentiating between experimental and theoretical probability</li> <li>determining the theoretical probability</li> <li>determining the experimental probability</li> <li>comparing experimental and theoretical probabilities.</li> </ul> <b>[C, PS, R, T]</b>	<ul style="list-style-type: none"> <li>With help, I can determine the sample space for a given probability.</li> </ul>	<ul style="list-style-type: none"> <li>I can determine the sample space for a <b>given probability experiment.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>determine the sample space</b> for a probability experiment I choose.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>determine the sample space</b> for a probability experiment I choose, and explain my reasoning.</li> </ul>
	<ul style="list-style-type: none"> <li>With help, I can <b>determine</b> the theoretical <b>OR</b> experimental probability from a given experiment.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>determine</b> the theoretical <b>OR</b> experimental probability from a given experiment.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>determine</b> the theoretical <b>AND</b> experimental probability from a <b>given experiment.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design</b> a probability experiment (coin toss, dice roll, etc), conduct the experiment, determine the sample space, predict the outcome, and <b>determine</b> the theoretical and experimental probability for the event.</li> </ul>
	<ul style="list-style-type: none"> <li>I can <b>describe</b> theoretical probability <b>OR</b> experimental probability.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>explain the difference between</b> theoretical probability and experimental probability.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>compare</b> the theoretical results of an experiment to the experimental results.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>suggest the importance of knowing</b> the difference between theoretical results and experimental results.</li> </ul>