Content Standard A6
Seventh Grade Level
Statistics/Probability

Students understand mathematical facts, concepts, principles and theories. They collect, organize, analyze, interpret, represent, and formulate questions about data and make reasonable and useful predictions about the certainty, uncertainty, or impossibility of an event.

State Mathematics Performance Standards 6th-8th	KGBSD Performance Standards	State Grade Level Expectations (GLE's)
M6.3.1 Collect, analyze, and display data in a variety of visual displays including frequency distribution, circle graphs, box and whisker plots, stem and leaf plots, histograms, and scatter plots with and without technology.	1.1 Analyze and display data using tables and graphs including frequency tables, circle graphs, and stem-and-leaf using appropriate scales	**Statistics and Probability: Data Display** **The student demonstrates an ability to classify and organize data by** **[7] S&P-1** [collecting, **L**] displaying, organizing, or explaining the classification of data in real-world problems (e.g., science or humanities, peers or community), using circle graphs, frequency distributions, stem and leaf, [or scatter plots **L**] with appropriate scale (M6.3.1)
M6.3.2 Interpret and analyze information found in newspapers, magazines, and graphical displays.	2.1 Interpret and analyze data from tables and graphs	**Statistics and Probability: Analysis and Central Tendency** **The student demonstrates an ability to analyze data (comparing, explaining, interpreting, evaluating or making predictions; or drawing or justifying conclusions) by** **[7] S&P-2** using information from a variety of displays (e.g., as found in graphical displays in newspapers and magazines) (M6.3.2)
M6.3.3 Determine and justify a choice of mean, median, or mode as the best representation of data for a practical situation.	3.1 Determine and justify a choice of mean, median, or mode as the best representation of data for a practical situation	**[7] S&P-3** determining or justifying a choice of mean, median, or mode as the best representation of data for a practical situation (M6.3.3)
M6.3.4 Make projections based on available data and evaluate whether or not inferences can be made given the parameters of the data.	4.1 Use line graphs to make predictions and inferences	**Statistics and Probability: Probability** **The student demonstrates a conceptual understanding of probability and counting techniques by**
M6.3.5 Use tree diagrams and sample spaces to make predictions about independent events.	5.1 Find the experimental and theoretical probability of a simple even	**[7] S&P-4** determining the [experimental **L**] and theoretical probability of a simple event (M6.3.5)

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M6.3.6 Design and conduct a simulation to study a problem and communicate the results.	6.1 Conduct a simple probability experiment and communicate the results	**[7] S&P-5** using a systematic approach to finding sample spaces and to making predictions about the probability of independent events (M6.3.5) **[7] S&P-6** [designing and conducting a simulation to study a problem and communicate the results **L**] (M6.3.6)