Data Management and Probability

	Proposed Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Collect and Organize Data	sort, classify and display a variety of concrete objects	collect, organize, and display objects and data using pictures and concrete graphs	collect, organize, and display data using pictures, concrete objects, and simple labelled pictographs and bar graphs	collect, organize and display data using tally charts, detailed pictographs, and bar graphs	collect, organize and display data using tally charts, tables and horizontal and vertical bar graphs	collect, organize and display data using tally charts, tables, line plots and double bar graphs	collect, organize and display primary data using tally charts, line graphs, bar graphs and scatter plots	collect, organize and display primary and secondary data using a variety of representations that include frequency tables, stem and leaf plots and comparative bar graphs	collect, organize and display primary and secondary data using histograms, line graphs and circle graphs
Understanding Data	justify a classification of concrete objects	investigate and discuss data from concrete graphs using comparative language	interpret data from simple charts and graphs	Interpret data from charts and graphs	investigate, explain, and interpret data from tables, charts and graphs	interpret and analyse accuracy of data in tables, charts and graphs	interpret data and explain relationships between data representations	analyse and evaluate arguments based on the analysis of data (e.g., bias, central tendency, distribution of data)	analyse and evaluate arguments based on measures of central tendency
Probability	describe probability in daily situations	describe probability in daily situations	investigate and describe simple probability situations using qualitative language	describe probabilities derived from simple experiments using qualitative language	compare predictions to actual results of simple probability experiments using quantitative language	compare predicted to actual results of a variety of probability experiments	compare experimental and theoretical probabilities of independent events	determine experimental and theoretical probability in multiple independent events	use probability models to make predictions about authentic events

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