GRADE 6 Statistics and Probability Specific Outcomes	Key Concepts in Measurement underpinning Curriculum Outcomes from FSIM: Data Management and Probability Resource Book	Sample Diagnostic Tasks and Activities	Sample Learning Tasks Selected from FSIM: Data Management and Probability Resource Book (link to online document)	Math Station Ideas:
SP6.1 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.	Collect and Organize Data KU1: • We can answer some questions (and test some predictions) by using data. Collect and Organize Data KU2: • We can produce data by counting or measuring things, asking groups of people, watching what happens, or reworking existing data. Summarize and Represent Data KU2: • We can display data visually; some graphs and plots show how one quantity varies over time [continuous data]. Summarize and Represent Data KU3: • We can display data visually; some graphs and plots show how to quantities are related [discrete data].		Data Management and Probability, pages 102-103 • Question Box • Balloon Power • Is It True? • Producing Data • Using Data Data Management and Probability, pages 112- • Cereal Survey 1, 2, 3 • What Kind of Responses? • Balloon Power Data Management and Probability, pages 178-181 • Collecting Cans • Growth and Change • Line Graph • Height Measurements • Informal Line Graphs Data Management and Probability, pages 178- • Skeletons • Measuring Lids 1, 2 • Buildings • Exploring Relationships • Time Relationships	Create a Graph (online interactive) Create Line Graphs (online interactive) "Search for Data" (document) "Ball Drop Experiment" (document) "Questioning the Questions" in *Math Makes Sense 6 ProGuide ™ Unit 7: Data Analysis and Probability*, p. v. "Story of Mrs. D." in *Math Makes Sense 6 ProGuide ™ Unit 7: Data Analysis and Probability*, p. v.

	Interpret Data KU1: • Graphs, tables, and diagrams display data about the real world, although they are not pictures of the real world. We need to learn how to read them. Interpret Data KU2: • When we analyze and interpret data, we are deciding what it says and what it means. There is a difference between the data itself and what we think it means.		• Ratings Data Data Management and Probability, pages 232 • Growth of a Chick • People Graph • Dot Plots • Hockey Table • Hockey Graph • Eating Patterns • Buying Chips Data Management and Probability, pages 247-248 • Ordered Pairs • Holidays	

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SP6.2 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.	Understand Probability KU1: • Some things we are sure will or will not happen and other things we are unsure about. Understand Probability KU2: • There are special words and phrases we use to describe how likely we think things are to happen. Understand Probability KU3: • We can compare and order things by whether they are more or less likely to happen. Understand Probability KU4: • We say things have an equal chance of happening when we think they will happen equally often in the long run.		Data Management and Probability, 30 • Possible or Impossible? • Certain or Uncertain? Data Management and Probability, 39 • Fitting Expressions Data Management and Probability, pages 49-51 • Ordering Spinners • Which One? • Different Spinners • Cards • Influencing Events • Make a Spinner • Spinners • Chance Situations Data Management and Probability, 62- • Outcomes • Weather Conditions • Choosing Socks • Collections	Math Academy: Are You Game? (link to printable games) Leap Frog Game (online interactive) Lions and tigers (online interactive) Spy Guys Interactive: Probability (online interactive) Rock-Paper-Scissors (document) Probability Activities (printable; pdf)

	Understand Probability KU5: • We can use numbers to describe how likely something is to happen.		• Chance Spin • Why Is It Fair? Data Management and Probability, 69- • Rating the Chances • Word Sort • Ordering Spinners • Percentages • Sorting Percentages	