

GRADE 7 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:
SP7.1 Demonstrate an understanding of the measures of central tendency and range for sets of data.	Collect and Organize Data KU4: • We should make our data as accurate and consistent as possible. Collect and Organize Data KU5: • Sometimes we collect data from a subset of a group to find out things about the whole group. There are benefits and risks in this. Summarize and Represent Data KU6: • We can use words and numbers to summarize features of a set of data.		Data Management and Probability, pages 136-137 • Growth Patterns • Consistent Data • Zero Values Data Management and Probability, pages 136-137 • Sampling • Choosing a Sample • School Representatives Data Management and Probability, pages 214-219 • The Average Height • Extend Average Height • Arm Spans • Identifying the Mode • Stem and Leaf Plots • School T-shirts • Mean Averages and Fair Shares 1, 2, 3 • Mean Heights • Line Plots 1, 2 • Balloon Power • Families 1, 2, 3 • Sports Equipment • Predictions • The Average Height	“The Mean Foot” p. 344 in TS-CM 6-8 “Where’s The Center?” p. 347 TS-CM 6-8 “You Be The Judge” p. 347 TS-CM 6-8 Exploring Measures of Central Tendency (online interactive) Dunk Tank!: Mean, Median, Mode and Range (online interactive) Mean, Median, and Mode Game (online interactive) Central Tendency Bingo (link to printable) Mean, Median, Mode, and Range Dice Practice (printable) Mean, Median, and Mode: M&Ms of Math (printable)

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SP7.2 Demonstrate an understanding of circle graphs.	Summarize and Represent Data KU1: • We can display data visually; some graphs and plots show how many or how much is in each category or group. Summarize and Represent Data KU5: • How we display our data depends on the kind of data we have and our purpose.		Data Management and Probability, p. 169 • Pie Graph Data Management and Probability, pages 204-205 • Which Type of Graph? • Computer Graphing • Sports Preferences • Pie Graphs	Mathopolis Pie Charts (online interactive) Circle Graphs M&Ms (printable) Circle Graphs : Hair Colour (printable) Circle Graph Survey (printable)

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SP7.3 Demonstrate an understanding of theoretical and experimental probabilities for two independent events where the combined sample space has 36 or fewer elements.	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	“Race to Ten” p. 356 TS-CM 6-8 “Design and Trade Bags” p. 357 TS-CM 6-8 “Drop It!” p. 362 TS-CM 6-8 Skunk: Probability and Risk Game (printable) Probability Activities (printable) What Are My Chances? (printable) Khan Academy: Statistics and Probability (online interactive)

	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	
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