

SUBJECT	Mathematics Grade 6 <i>How Likely Is It?</i> <i>Data About Us</i>	Mathematics Grade 7 <i>What Do You Expect?</i> <i>Data Distributions</i>	Mathematics Grade 8 <i>Samples and Populations</i> <i>Say It With Symbols</i>
Ideas students are learning	Students will explore experimental probability through various methods of data collection. Students will analyze situations both theoretically and experimentally.	Students will determine experimental and theoretical probability through simulations and the use of area models. Students will create multiple representations of data displayed in a table.	Students will use probability as a tool for understanding sampling issues in statistics. Students will use the logic underlying equations, tables and graphs to show equivalency.
Skills	Students will describe, interpret, and compare distributions. Students will group and display data using stem-and-leaf plots. Students will find the mean of a set of data using cubes.	Students will use an organized list or tree diagram to show possible outcomes for an event. Students will compare trends and patterns while analyzing graphs.	Students will use information from samples to draw conclusions about populations. Students will write equations and interpret symbolic expressions.
Work and assignments to look for	Student Notebook, Application, Connection, and Extension Problems, Mathematical Reflection for each Investigation	Student Notebook, Application, Connection, and Extension Problems, Mathematical Reflection for each Investigation	Student Notebook, Application, Connection, and Extension Problems, Mathematical Reflection for each Investigation
Questions Parents Can Ask	How can I use the probabilities I have found to answer questions or make decisions about a situation? How can I use graphs and statistics to describe a data distribution?	Describe strategies you used to find experimental probabilities. Describe strategies you used to find theoretical probabilities.	How do you choose the best way to display data to represent your point of view? How do you use solutions of equations to make predictions and decisions?
Special Notes	Students are expected to talk and write about their mathematical thinking. They will be asked to justify their answers. They will also be asked to display their answers in a variety of formats.	Students are expected to talk and write about their mathematical thinking. They will be asked to justify their answers. They will also be asked to display their answers in a variety of formats.	Students are expected to talk and write about their mathematical thinking. They will be asked to justify their answers. They will also be asked to display their answers in a variety of formats.