

Exploring Data	Designing Studies
<ul style="list-style-type: none"> • Represent data visually and calculate statistical measures that describe the data set. (e.g., Construct and interpret a histogram for a student created data set.) 	<ul style="list-style-type: none"> • Design a plan to collect data using an appropriate sampling method to solve a problem. (e.g., Design and conduct an experiment to determine the effect of a treatment.)
Functions and Modeling	Probability and Informed Decisions
<ul style="list-style-type: none"> • Explore expressions, functions, and models to highlight key features that provide insight into their structure, properties, and form. (e.g., Model situations using mathematics to provide an optimal solution.) 	<ul style="list-style-type: none"> • Make inferences and justify conclusions from data and analyze decisions and strategies using probability concepts. (e.g., Compare experimental and theoretical probabilities to make informed decisions.)