Algebra 2: Unit 5 Instructional Focus — Applications of Probability

Topic	Instructional Foci
of Probability	Building on probability concepts that began in the middle grades, students develop sample spaces and use them to calculate probabilities of events. Conditional probabilities are determined using two-way tables. The concepts of dependent and independent events are explored. Events and their probabilities are represented using Venn and tree diagrams and two-way frequency tables. The rule for conditional probability, the addition rule, and the multiplication rule for independent events are developed and applied. Honors Algebra 2 students develop and apply the general multiplication rule. The focus in this unit is on applying probability concepts to real-world situations.
ules	Concepts:
e Rı	• Determine the elements of a sample space and use it to determine the probability of an event.
l th	• Calculate probabilities of events using two-way tables.
and	• Define and determine conditional probabilities using two-way tables.
ity	• Determine whether two or more events are independent.
lidi	• Represent events and add and subtract probabilities using Venn and tree diagrams.
oba	• Develop and apply the rule for conditional probability and the Multiplication Rule for independent events.
Pr	• Develop and apply the Addition Rule for compound events.
nal	Concepts unique to Honors Algebra 2:
litic	• Develop and apply the General Multiplication Rule.
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