

Math DesCartes: Data Analysis, Statistics and Probability

Skills: Probability

Students:	DesCartes Skills: (Highlight the skills related to your chosen standard/concept)
	RIT Above 261: <ul style="list-style-type: none"> Determines the probabilities of compound events (dependent)
	RIT 251-260: <ul style="list-style-type: none"> Determines certainty from a set data Determines the probabilities of complex compound events (independent)
	RIT 241-250: <ul style="list-style-type: none"> Determines certainty from a set data Determines probability using counting procedures Determines probability using tables Determines the complement of a complex event Determines probability using an area model Uses multiplication principle of counting to determine possibilities Uses counting procedures to determine possibilities Uses theoretical probability to predict future events
	RIT 231-240: <ul style="list-style-type: none"> Determines certainty from a set data Determines sample space given probability of all possible outcomes Determines probability - must determine size of sample space Modifies sample space to change the probability of an event Determines the probability of independent simple compound events Determines the complement of a complex event Recognizes the relationship between events and probability - selects an experiment which matches a given probability
	RIT 221-230: <ul style="list-style-type: none"> Determines likelihood using tree diagrams Determines probability - must determine size of sample space Determines the complement of a simple event Determines the possible outcomes for a simple probability experiment using spinners Determines the possible outcomes for a simple probability experiment using dart boards Solves problems involving combinations Determines the number of possible combinations of given items Determines the outcome of simple multiple events Uses previous results to predict future events Computes probability as a fraction, given equivalent forms Given probability as a decimal, estimates probability as a fraction Identifies whether predictions are based on theoretical

	or experimental probability
	RIT 211-220: <ul style="list-style-type: none"> Uses systematic lists to represent problems Determines the probability for a simple experiment using one die Determines probability from a real-world situation - number of possible outcomes given Determines the probabilities for a simple experiment using a frequency table - must determine size of sample space Determines probability when drawing objects from containers - must determine size of sample space Determines the complement of a simple event Determines the possible outcomes for a simple probability experiment using spinners Solves problems involving permutations Determines the number of possible combinations of given items Predicts the sample space, based on the outcome of an experiment - tally sheet Uses the results of probability experiments or events to predict future events
	RIT 201-210: <ul style="list-style-type: none"> Recognizes events that are certain, likely, unlikely, possible, or impossible Uses the concept of chance to determine the likelihood of an event Determines the probability for a simple experiment using one or more coins Determines the probability for a simple experiment using objects - must determine size of sample space
	RIT 191-200: <ul style="list-style-type: none"> Investigates probability of "more likely" or "less likely" using a spinner Investigates probability of "more likely" or "less likely" with a dart board
	RIT 181-190: <ul style="list-style-type: none"> Investigates probability of "more likely" or "less likely" using a spinner Investigates probability of "more likely" or "less likely" with objects hidden in containers
	RIT 171-180: <ul style="list-style-type: none"> Investigates probability of "more likely" or "less likely" using a table

Math DesCartes: Data Analysis, Statistics and Probability

Skills: Probability

Lesson Title:

Standard/Concept for All:

Introduction: (Get Attention; Connect to Prior Knowledge)

For Students Ready for a Challenge:

Lesson/Activity:

Resources:

Means of Assessment:

For Most Students:

Lesson/Activity:

Resources:

Means of Assessment:

For Students Needing Extra Support:

Lesson/Activity:

Resources:

Means of Assessment:

Closure/Summary for All: