

New York State Regents Examination in Algebra II (Common Core)

Performance Level Descriptions

July 2016



Policy-Level Performance Level Definitions

For each subject area, there are students performing along a proficiency continuum with regard to the skills and knowledge necessary to meet the demands of the Learning Standards for Mathematics. There are students who are exceed the expectations of the standards, students meet the expectations, students who partially meet the expectations, and students who do not demonstrate sufficient knowledge or skills required for any performance level. New York State assessments are designed to classify students into one of four proficiency categories; these proficiency categories are defined as:

NYS Level 5

Students performing at this level exceed the expectations of the standards.

NYS Level 4

Students performing at this level meet the expectations of the standards.

NYS Level 3

Students performing at this level partially meet the expectations of the standards (sufficient for current Regents Diploma purposes).

NYS Level 2 (Safety Net)

Students performing at this level partially meet the expectations of the standards (sufficient for Local Diploma purposes).

NYS Level 1

Students performing at this level do not demonstrate the knowledge and skills required for NYS Level 2.

Performance Level Descriptions

Performance Level Descriptions (PLDs) describe the range of knowledge and skills students should demonstrate at a given performance level.

How were the PLDs developed?

The New York State Education Department convened a small group of NYS mathematics educators to develop the initial draft PLDs for Algebra II. The draft PLDs then went through additional rounds of review and edit from a number of NYS-certified educators, content specialists, and assessment experts as well as the Department's Mathematics Content Advisory Panel. In developing PLDs, participants considered policy-level definitions of the performance levels (see above) and the expectations for each grade level in the Learning Standards for Mathematics.



How are the PLDs used in Assessment?

PLDs are essential in setting standards for the New York State Regents Examinations. Standard setting panelists use PLDs to determine the threshold expectations for students to demonstrate the knowledge and skills necessary to attain just barely a Level 2, Level 3, Level 4, or Level 5 on the assessment. These discussions then influence the panelists in establishing the cut scores on the assessment. PLDs are also used to inform item development, as each test needs questions that distinguish performance all along the continuum.

How can the PLDs be used in Instruction?

PLDs help communicate to students, families, educators and the public the specific knowledge and skills expected of students to demonstrate proficiency and can serve a number of purposes in classroom instruction. They are the foundation of rich discussion around what students need to do to perform at higher levels and to explain the progression of learning within a subject area. We encourage the use of the PLDs for a variety of purposes, such as differentiating instruction to maximize individual student outcomes, creating classroom assessments and rubrics to help in identifying target performance levels for individual or groups of students, and tracking student growth along the proficiency continuum as described by the PLDs. In order to facilitate the use of the PLDs in instruction, the skills differentiating performance levels have been identified using bold text.

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
The Real	Generalize/explain the	Rewrite multivariable	Rewrite single variable	Rewrite numerical and	Rewrite numerical
Number	equivalence of rational	expressions involving	expressions involving	variable expressions	expressions containing
System	exponents and radicals using	radicals and/or rational	radicals and/or rational	containing radicals	radicals and/or rational
(N-RN)	abstract representations.	exponents where the	exponents where the	and/or rational	exponents.
		exponent may contain a	exponent may contain a	exponents.	
	Justify conjectures using	variable.	variable.		
	concrete examples.				
	Compare and interpret	Perform operations on	Simplify expressions	Simplify expressions	Simplify numerical
	complex expressions involving	expressions involving	containing radicals and	containing radicals or	radicals.
	radicals and/or rational	radicals and/or rational	rational exponents.	rational exponents.	
	exponents where the exponent	exponents.			
	may contain a variable.				
	Explain why two algebraic	Explain why two			
	expressions containing radicals	numerical expressions			
	and rational exponents are	containing radicals and			
	equal.	rational exponents are			
		equal.			

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Quantities	Identify and interpret the most	Determine the most	Given the most	Identify quantities in a	Identify a quantity in a
(N-Q)	relevant quantity in a modeling	relevant quantity in a	relevant quantity in a	modeling context.	modeling context.
	context that contains more than	modeling context that	modeling situation		
	one possible quantity.	contains more than one	justify its importance.		
		possible quantity.			

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
The Complex	Calculate expressions	Calculate expressions	Calculate expressions	Calculate products of	Calculate sums of
Number	containing both sums and	containing both sums	containing both sums	complex numbers.	complex numbers.
System	products of complex numbers	and products of	and products of		
(N-CN)	with any power greater than	complex numbers	complex numbers.	Simplify expressions	
	2, providing an answer in	providing an answer		containing i ² .	
	a + bi form.	in a + bi form.	Simplify expressions		
			containing powers of i		
			greater than 2.		
	Justify the equivalence of	Solve a quadratic	Solve a quadratic	Determine the	
	negative radicands and their	equation to find the	equation to find the	existence of non-real	
	complex equivalents using	complex solutions	complex solutions.	solutions in a quadratic	
	concrete examples.	providing an answer		equation.	
		in a + bi form. Justify			
		the existence of non-			
		real solutions			
		graphically.			
	Explain the connection	Identify the			
	between the type of algebraic	connection between			
	solutions and the graph of the	the type of algebraic			
	quadratic equation.	solutions and the graph			
		of the quadratic			
		equation.			

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Seeing	Rewrite polynomial, rational	Rewrite polynomial,	Rewrite polynomial	Rewrite polynomial or	Provide evidence that
Structure in	and exponential expressions in	rational and	and exponential	exponential expressions	two expressions are
Expressions	different but equivalent forms.	exponential expressions	expressions in a	in a different but	equivalent by
(A-SSE)		in a different but	different but equivalent	equivalent form.	substituting numerical
		equivalent form.	form.		values for variables or
					graphing each
					expression.
	Find the most appropriate	In a real-world context,	In a real-world context,	Identify the parts of an	Identify the parts of an
	form of an exponential function	use the properties of	use the properties of	exponential function in	exponential function.
	to solve real-world or	exponents to write an	exponents to write an	a real-world context.	
	mathematical problems and	equivalent form of an	equivalent form of an		
	explain multiple	exponential function	exponential function.		
	interpretations of expressions	and interpret the parts			
	in terms of its context.	of the expression to			
		reveal information			
		about the situation.			
		Apply the geometric	Apply the geometric	Given a geometric	Identify the first term in
		series formula to solve	series formula to a	series in summation	a geometric sequence
		a real world problem.	geometric sequence of	notation, list the terms	and its common ratio.
			numbers.	of the geometric	
				sequence.	

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Arithmetic	Apply the remainder theorem to	Apply the remainder	Apply the remainder	Determine the	
with	determine the remainder on	theorem to determine	theorem to determine if	remainder of $P(x)$ by	
Polynomials	division by $(bx - a)$ and if	the remainder on	(x - a) is a factor of	evaluating P(a).	
& Rational	(bx - a) is a factor of $P(x)$.	division by $(x - a)$ and	P(x).		
Evennoggiong		if $(x - a)$ is a factor of			
Expressions		P(x).			
(A-APR)	Identify zeros of quadratic,	Identify zeros of	Identify zeros of	Identify zeros of	Identify the zeros of a
	cubic, and quartic polynomials	quadratic, cubic, and	quadratic, cubic, and	quadratic, cubic, and	polynomial function
	and polynomials for which	quartic polynomials	quartic polynomials	quartic polynomials.	given in factored form.
	factors are not provided, and use	and polynomials for	and use the factors to		
	the factors to graph the function	which factors are not	graph the function.		
	in context.	provided, and use the			
		factors to graph the			
		function.			
	Derive a polynomial identity	Prove that a polynomial	Prove that a polynomial	Provide justification for	Provide evidence that
	and use the identity to describe	equation is an identity	equation is an identity.	a step of a given	an equation is an
	numerical relationships in	and use the identity to		identity proof.	identity by substituting
	context.	describe numerical			numerical values for
		relationships.			the variables.
	Determine equivalent forms of a	Determine equivalent	Determine equivalent	Determine equivalent	Identify equivalent
	rational expression and describe	forms of a rational	forms of a rational	forms of a rational	forms of a rational
	the algebraic significance of the	expression using long	expression by	expression for	expression for factored
	remainder.	division.	inspection.	factorable expressions	expressions (no
				(no remainder).	remainder).

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Creating	Create an equation in one	Create an equation in	Create an equation in	Create an equation in	Determine if an
Equations	variable and use it to solve	one variable and use it	one variable and use it	one variable (i.e.,	equation can be used to
(A-CED)	problems (i.e., exponential with	to solve problems (i.e.,	to solve problems (i.e.,	linear, quadratic,	describe a given
()	rational or real exponents, and	exponential with	linear, quadratic,	exponential equations).	situation.
	rational equations) in a real-	rational or real	exponential equations).		
	world context.	exponents, and rational			
		equations).			

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Reasoning	Predict, without solving, when	Solve radical and	Solve radical and	Solve a radical or a	Verify that a number is
with	a radical or rational equation	rational equations in	rational equations in	rational equation in one	a solution to a radical
Equations &	will have no real solutions and	one variable and	one variable.	variable.	or rational equation.
Incapolitics	explain reasoning using	identify extraneous			
	mathematical evidence.	solutions.			
(A-KEI)	Solve quadratic equations in one	Solve quadratic	Solve quadratic	Solve quadratic	Verify a solution to a
	variable that result in complex	equations in one	equations in one	equations in one	quadratic equation in
	solutions and construct a viable	variable that result in	variable that result in	variable that results in a	one variable.
	argument to justify the	complex solutions,	real or complex	pure imaginary	
	advantages of one particular	providing an answer	solutions.	solution.	
	method over another.	in a + bi form.		(e.g., $x = 0 + -2i$).	
	Solve a system of 3 equations in	Solve a system of 3	Solve a system of 3	Select a solution	Given a system of 3
	3 variables and solve a linear-	equations in 3 variables	equations in 3 variables	strategy for solving	equations in 3 variables
	quadratic system and construct	and solve a linear-	or solve a linear-	system of 3 equations	or a linear-quadratic
	a viable argument to justify the	quadratic system.	quadratic system.	in 3 variables or solve a	system, verify the
	advantages of one particular			linear-quadratic system.	solution algebraically.
	method over another.				
	Recognize when an equation	Explain why the x-	Find the exact or	Find the exact or	Given a graph of $y =$
	of the form f(x)=g(x) cannot	coordinates of the	approximate solutions	approximate solutions	g(x) and $y = f(x)$, use
	be solved algebraically, and	points where the graphs	to the equation $f(x) =$	to the system $y = f(x)$	integer-valued
	solve it graphically. Explain	of the equations $y = f(x)$	g(x).	and $y = g(x)$.	coordinates to name a
	why the <i>x</i> -coordinates of the	and $y = g(x)$ intersect	(Functions are limited	(Functions are limited	point of intersection.
	points where the graphs of the	are the solutions of the	to linear, polynomial,	to linear, polynomial,	(Functions are limited
	equations $y = f(x)$ and $y = g(x)$	equation $f(x) = g(x)$.	rational, or absolute	rational, or absolute	to linear, polynomial,
	intersect are the solutions of the	(Functions are limited	value, exponential and	value, exponential and	rational, or absolute
	equation $f(x) = g(x)$.	to linear, polynomial,	logarithmic)	logarithmic)	value, exponential and
		rational, or absolute			logarithmic)
		value, exponential and			
		logarithmic)			

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Interpreting		Generate the	Identify a recursively-	Identify a recursively-	Determine the n th value
Functions		recursive formula	defined sequence as a	defined sequence as a	of an explicitly defined
(F-IF)		given a sequence.	function and determine	function.	sequence.
()			a specific term.		
	Generate an equation and	Accurately sketch and	Accurately sketch and	Create graphs using	Identify key features on
	sketch a graph of a function	create graphs using	create graphs using	technology and	a given graph.
	given the key features.	technology and	technology and	identify key features	(Functions are limited
	(Functions are limited to	interpret key features	identify key features of	visible within the	to polynomial,
	polynomial, exponential,	of graphs and tables in	graphs and tables.	"standard zoom" (-10	exponential,
	trigonometric and logarithmic)	a real-world context.	(Functions are limited	to 10 calculator	trigonometric and
		(Functions are limited	to polynomial,	window) by hand or	logarithmic)
		to polynomial,	exponential,	technology. (Functions	
		exponential,	trigonometric and	are limited to	
		trigonometric and	logarithmic)	polynomial,	
		logarithmic)		exponential,	
				trigonometric and	
				logarithmic)	
	Compare and explain the	Estimate, calculate,	Calculate the average	Calculate the average	Estimate the average
	relationship between the	and interpret the	rate of change over a	rate of change over a	rate of change from a
	average rates of change of two	average rate of change	specified interval from	specified interval from	polynomial or
	different functions over a	over a specified interval	a graph or table.	a graph or table.	exponential graph.
	specified interval. (Functions	from a graph or table.	(Functions are limited	(Functions are limited	
	are limited to polynomial,	(Functions are limited	to polynomial,	to polynomial and	
	exponential, trigonometric and	to polynomial,	exponential,	exponential)	
	logarithmic). Generate a	exponential,	trigonometric and		
	function that illustrates given	trigonometric and	logarithmic)		
	properties.	logarithmic)			
	Rewrite function (s) in an	Rewrite a function in	Rewrite a function in	Identify different but	
	equivalent form in order to	an equivalent form to	an equivalent form to	equivalent forms of the	
	compare the properties of two	interpret properties of	identify properties of	same function.	
	functions. (Functions are limited	the function.	the function.		
	to polynomial, exponential,				
	trigonometric and logarithmic)				

(F-IF	Compare properties of	Compare properties of	Compare properties of	Compare properties of
continued)	two functions with each	two functions with each	two functions with each	two functions
	represented in a	represented in a	represented in a	represented in the same
	different way (i.e.,	different way (i.e.,	different way (i.e.,	way (i.e., algebraically,
	algebraically,	algebraically,	algebraically,	graphically, or
	graphically,	graphically,	graphically,	numerically in tables).
	numerically in tables,	numerically in tables,	numerically in tables,	(Functions are limited
	or by verbal	or by verbal	or by verbal	to polynomial and
	descriptions).	descriptions).	descriptions).	exponential)
	(Functions are limited	(Functions are limited	(Functions are limited	
	to polynomial,	to polynomial,	to polynomial and	
	exponential,	exponential and	exponential)	
	trigonometric and	logarithmic)		
	logarithmic)			

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Functions (F-BF)	Justify that a specific	Determine and write the function that generates an arithmetic or geometric sequence in a real world context. Write sequences both	Write the function that generates an arithmetic or geometric sequence. Write sequences as an explicit formula	Write a qualitative or narrative description of an arithmetic or geometric sequence.	Identify the descriptive characteristics of an arithmetic versus geometric pattern. Identify a sequence as represented by an
	formula represent the same sequence.	explicit formula.	explicit formula.	recursively.	explicit formula.
	Combine and interpret functions using arithmetic operations in context.	Combine functions using arithmetic operations in context .	Combine functions using arithmetic operations .	Combine functions using addition and subtraction.	Combine functions of the same function family, using addition and subtraction.
	Justify algebraically whether a function is even or odd.	Identify the effect on a graph of replacing $f(x)$ with $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$. Find the value of k given the graphs. Identify even and odd functions from their graphs and algebraic expressions. (Functions are limited to polynomial, exponential, trigonometric and logarithmic)	Identify the effect on a graph of replacing $f(x)$ with $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$. Find the value of k given the graphs. Identify even and odd functions from their graphs. (Functions are limited to polynomial, exponential, trigonometric and logarithmic)	Identify the effect on a graph of replacing $f(x)$ with $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$. Find the value of k given the graphs. (Functions are limited to polynomial, exponential, trigonometric and logarithmic)	Identify the effect on a graph of replacing $f(x)$ with $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$. (Functions are limited to polynomial, exponential, trigonometric and logarithmic)
	Justify algebraically that two functions are inverses.	Find the inverse of a function (other than linear) algebraically.	Find the inverse of a linear function algebraically.	Recognize that an inverse of a linear function is formed by interchanging the domain and range.	

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Linear,	Construct and apply a linear	Construct and	Construct and identify	Identify linear and	Identify linear and
Quadratic, &	and exponential function that	identify linear and	linear and exponential	exponential functions,	exponential functions,
Exponential	models a real world context ,	exponential functions	functions, given a	given a graph, a	given a graph, or two
Models	given a graph, a description of a	that model a real-	graph, a description of	description of a	input-output pairs
	relationship, or two input-output	world context, given a	a relationship, or two	relationship, or two	(include reading these
(F-LE)	pairs (include reading these	graph, a description of	input-output pairs	input-output pairs	from a table).
	from a table).	a relationship, or two	(include reading these	(include reading these	
		input-output pairs	from a table).	from a table).	
		(include reading these			
		from a table).			
	Explain the solution to an	Solve an exponential	Solve an exponential	Solve an exponential	Evaluate logarithms
	exponential equation using the	equation and evaluate	equation and evaluate	equation and evaluate	using technology (Base
	relationship between exponents	logarithms using	logarithms using	logarithms using	10 and <i>e</i>)
	and logarithms.	technology. (Bases are	technology. (Bases are	technology. (Bases are	
	Solve exponential equations	limited to 2, 10, and <i>e</i>)	limited to 2 , 10)	limited to 10)	
	with rational bases or base <i>e</i> .				
	Interpret changes in	Interpret the parameters	Interpret the	Determine if an	Determine if an
	parameters based on the	(i.e., growth or decay	parameters (i.e., growth	exponential function of	exponential function of
	comparison of two functions in	factor) in an	or decay factor) in an	the form $A = Pe^{rt}$	the form $f(x) = a(b)^x$
	terms of a real-world context.	exponential function in	exponential function.	represents growth or	represents growth or
		terms of a real-world		decay.	decay.
		context.			

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Trigonometric	Explain how the graphs of	Explain how the unit	Determine angle	Determine angle	Calculate angle
Functions	trigonometric functions are	circle enables the	measures, in	measures, in	measures, in degrees,
(F-TF)	generated from the unit circle.	extension of the six trigonometric functions to all real numbers.	degrees/radians, and the six trigonometric ratios using the unit circle or the Pythagorean identity. Convert angle/arc measures from radians to degrees and degrees to radians.	degrees/radians, and the three basic trigonometric ratios $(\sin \Theta, \cos \Theta, \text{ and } \tan \Theta)$ using the unit circle or the Pythagorean identity.	and three basic trigonometric ratios $(\sin \Theta, \cos \Theta, \text{ and } \tan \Theta)$ using the unit circle.
	Create appropriate trigonometric functions to model periodic phenomena based on a verbal description of the amplitude, frequency, and midline.	Construct an appropriate trigonometric function to model periodic phenomena by correctly interpreting amplitude, frequency and midline .	Choose an appropriate trigonometric function to model periodic phenomena by correctly interpreting amplitude, frequency, or midline.	Given a situation, determine the appropriate trigonometric function that best represents the model.	Given a graph, identify which trigonometric function is being modeled. Identify amplitude, frequency or midline of a given trigonometric model.

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Expressing	Derive equivalent equations	Derive the equation of	Derive the equation of	Identify the	Identify the vertex for a
Geometric	for a parabola given its focus	a parabola given its	a parabola given its	orientation of the	parabola of either
Properties	and its directrix.	focus and its directrix,	focus and its directrix,	parabola given its focus	orientation.
with		for a parabola of either	for a vertically	and its directrix.	
E ano ti ana		orientation where the	oriented parabola		
Equations		focus and the directrix	where the focus is on		
(G-GPE)		are located anywhere in	the vertical axis or the		
		the coordinate plane.	directrix is on the		
			horizontal axis.		
	Identify the focus and directrix	Identify the focus or	Identify the focus and	Identify the focus or	Identify the vertex of a
	of a parabola given the equation	directrix of a parabola	directrix of a parabola	directrix of a parabola	parabola given the
	in any form.	given the equation in	given the graph of the	given the graph of the	equation in vertex
		standard form.	parabola.	parabola.	form.
	Explain the relationship	Justify the relationship	Given the graph of a		
	between the focus and directrix	between the focus and	parabola, show the		
	and how the parabola is formed.	directrix.	relationship between		
			the focus and the		
			directrix.		

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Interpreting	Generate and explain why	Interpret the mean and	Sketch a normal	Identify the mean and	Identify whether data
Categorical &	scenarios may fit a normal	standard deviation of	distribution model	standard deviation	sets are approximately
Quantitative	distribution.	the normal distribution	given the mean and	given a normal	normal or skewed.
Data		in the context of	standard deviation of a	distribution and	
(S-ID)		appropriate real-world	set of data.	calculate a z-score for a	
``´´		scenarios.		given set of data.	
	Generalize how the normal distribution relates to the mean and standard deviation.	Use the normal distribution to estimate population percentages in real-world scenarios.			
	Choose and justify the most appropriate model for a set of data. Generate and interpret models, and make predictions in a context.	Generate and apply an exponential or trigonometric model to a set of data. Interpret the model and predictions in a context.	Generate and use the exponential or trigonometric model to make predictions.	Generate exponential and trigonometric equations to model a set of data.	Generate exponential equations to model a set of data.

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Making	Compare and contrast the	Explain how	Explain the purpose	Identify which	Describe how
Inferences &	purposes and differences among	randomization is	of a sample survey,	method of data	randomization affects a
Justifving	sample surveys, experiments,	accomplished in	experiments, and	collection is	sample.
Conclusions	and observational studies.	sample surveys,	observational study.	appropriate to a given	
(SIC)	Make inferences and justify	experiments, and		context.	
(3-10)	conclusions based on	observational studies			
	appropriate data collection	and describe the			
	methods.	purpose of each.			
	Create and interpret an interval	Develop a margin of	Estimate a population	Calculate sample	Identify sample means
	of plausible values containing	error based on the	mean or proportion	means and proportions.	and sample proportions.
	the middle 95% of data.	results of a sample	using sample data.		
		when estimating a			
		population mean or			
		proportion.			
	Explain how a simulation	Interpret the results	Understand the purpose		
	could be used to justify	of simulations in the	of a simulation and		
	conclusions from a statistical	context of a data	determine if a given		
	study.	collection method.	model is consistent		
			with the results of a		
			simulation involving		
			proportions.		
	Use a rerandomization	Use a rerandomization	Calculate and	Compare two	Calculate the difference
	simulation to decide if the	simulation to decide if	interpret the difference	treatments in a	of means in a
	difference in means is	the difference in means	of the means in a	controlled experiment.	controlled experiment.
	significant and explain the	is significant.	controlled experiment.		
	conclusion in the context of the				
	problem.	T1			
	Construct a viable argument	Identify the evidence	Identify the statistical	Given the statistical	
	and/or critique the reasoning of	needed and evaluate a	evidence needed to	evidence, determine if a	
	a claim based on statistical	claim based on	evaluate a claim.	claim is likely to be	
	evidence, using statistical	statistical evidence.		true or not true.	
	language.				

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Conditional	Construct and interpret a two-	Calculate conditional	Calculate	Calculate relative	
Probability &	way table given a verbal	probabilities given a	probabilities given a	frequencies given a	
the Rules of	description.	two-way table.	two-way table.	two-way table.	
Probability					
(S-CP)	Create, explain and interpret	Explain why two	Determine if two		
(5-C1)	two independent events using	events are independent	events are independent		
	concepts of conditional	using concepts of	using concepts of		
	probability in verbal	conditional probability	conditional probability		
	descriptions or two-way tables.	in verbal descriptions	in verbal descriptions		
		or two-way tables.	or two-way tables.		
		Calculate the	Calculate the	Identify P(A),	
		conditional probability	conditional probability	P(A and B), and P(B).	
		of A given B as the	of A given B given P(A		
		fraction of B's	and B) and P(B).		
		outcomes that also			
		belong to A and			
		interpret the answer in			
		terms of the model.			
	Choose and apply appropriate	Apply subsets of a	Apply subsets of a	Identify subsets of a	List the sample space
	subsets of a sample space in	sample space in order	sample space in order	sample space.	of a probability
	order to compute probabilities	to compute	to compute		experiment.
	of events and interpret the	probabilities of events	probabilities of events		
	results in the given context.	and interpret the results	in the given context.		
		in the given context.			