

F.15 - High School Algebra II

PUBLISHER/PROVIDER MATERIAL INFORMATION (TO BE COMPLETED BY PUBLISHER/PROVIDER)						
Publisher/Provider Name/Imprint:		Grade(s):				
Title of Student Edition:		Student Edition ISBN:				
Title of Teacher Edition:		Teacher Edition ISBN:				
Title of SE Workbook:		SE Workbook ISBN:				

PUBLISHER/PROVIDER C	PUBLISHER/PROVIDER CITATION VIDEO: Reviewer must view video before starting the review of this set of materials.					
Citation Video Link:						
C Itation Video certification.	I certify that I have viewed the citation set of materials.					
Digital Material Log In: (Include ONLY if submitting digital materials as part of the review set listed above.)	Website:	Username:	Password:			

Section 1: Standards Review -- Math Content Standards PUBLISHER/PROVIDER INSTRUCTIONS:

PUBLISHER/PROVIDER INSTRUCTIONS:

Publisher/Provider intations for this section will refer to the **Teacher Edition (teacher-facing core material)**. The cited Teacher Edition should correspond with the title and ISBN entered on the Form F cover page, whether in print, online, or both.
The review set submitted to the summer review institute should also correspond with what is cited on the Form F. If the review set is an online platform only, then that is what should be cited on the Form F and submitted for review by the review teams.
For this section, the publisher/provider will enter one citation per math content standard in Column D. Each citation should direct the review reto a specific location in the materials that best meets the standard. The citation should be cover no more than 3 pages within the materials that best meets the standard. The citation should be cover no more than 3 pages within the materials that best meets the standard. If necessary, you may enter multiple, targeted citations in column D form the Teacher-Facing core material). Each citation should direct the reviewer to a specific location in the materials that best meets the standard. If necessary, you may enter multiple, targeted citations in Column D. Each citation should direct the reviewer to a specific location in the materials that best meets the standard. If necessary, you may enter multiple, targeted citations is noted the standard with multiple components. Use as few citations should be savectations? "Doe not meet executions?" have on the citation provider divert the execution print of the standard have been met.
O column D: The material will be concider at final divert as "Meet executions."

o Column E: The material will be scored for alignment with each standard as "Meets expectations", "Partially meets expectations", or "Does not meet expectations" based on the citation provided.

			o NOTE: You may not use a	, auton n	iore than once across ALL set	cions of the rubric.			
Criteria #	Standard	F.15 High School Algebra II Standards Review	Publisher/Provider Citation from Teacher Edition	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Reviewer Citation from Student Edition/Workbook	Score	Required: Reviewer's Evidence	Comments, other citations, notes
DOMAIN	: HS.N-CN The	Complex Number System		•		•			
Cluster:	Perform arith	netic operations with complex numbers.			1				1
1	N.CN.1	Know there is a complex number <i>i</i> such that $i^2 = -1$, and every complex number has the form $a + bi$ with <i>a</i> and <i>b</i> real.							
2	N.CN.2	Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex							
Cluster:	Use complex i	numbers. numbers in polynomial identities and equations.		1					1
3	N.CN.7	Solve quadratic equations with real coefficients that have complex							
		solutions. (+) Extend polynomial identities to the complex numbers. For							
4	N.CN.8	example, rewrite $x^2 + 4$ as $(x + 2i)(x - 2i)$.							
5	N.CN.9	(+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.							
DOMAIN	: HS.A-SSE See	ing Structure in Expressions					1		
		tructure of expressions.							
6	A.SSE.1	Interpret expressions that represent a quantity in terms of its							
		context.★ Interpret parts of an expression, such as terms, factors, and							
7	A.SSE.1.a	coefficients.							
8	A.SSE.1.b	Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret $P(1+r)^n$ as the product of P and a factor not depending on P.							
		Use the structure of an expression to identify ways to rewrite it. For							
9	A.SSE.2	example, see $x^4 - y^4$ as $(x^2)^2 - (y^2)^2$, thus recognizing it as a difference of squares that can be factored as $(x^2 - y^2)(x^2 + y^2)$.							
Cluster:	Write express	ons in equivalent forms to solve problems.			l	l		I	
10	A.SSE.4	Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems. For							
DC		example, calculate mortgage payments. ★							L
		thmetic with Polynomials and Rational Expressions network of the second se							
cluster.	renom anti	Understand that polynomials form a system analogous to the		1					
11	A.APR.1	integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.							
Cluster:	Understand th	e relationship between zeros and factors of polynomials.		1		1	1		I
12	A.APR.2	Know and apply the Remainder Theorem: For a polynomial $p(x)$ and							
12	A.APR.2	a number <i>a</i> , the remainder on division by $x - a$ is $p(a)$, so $p(a) = 0$ if and only if $(x - a)$ is a factor of $p(x)$.							
13	A.APR.3	Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the							
Cluster:		function defined by the polynomial. al identities to solve problems.							
		Prove polynomial identities and use them to describe numerical							
14	A.APR.4	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2$							
		Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (2xy)^2$ can be used to generate Pythagorean triples. (+) Know and apply the Binomial Theorem for the expansion of $(x+y)^{n}$ in powers of x and y for a positive integer n, where x and y are any							
14	A.APR.4	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y)^2 = (x^2 - y)^2 + (2xy)^2 = (x^2 - x)^2 + (2xy)^2 + (2xy)^2$							
14 15	A.APR.4 A.APR.5	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (2xy)^2$ can be used to generate Pythagorean triples. (+) Know and apply the Binomial Theorem for the expansion of $(x+y)^2$ in powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle. al expressions.							
14 15	A.APR.4 A.APR.5	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (zx)^2 - (zx)^2 $							
14 15 Cluster:	A.APR.4 A.APR.5 Rewrite ration	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(k^2 + y^2)^2 = (Zw)^2 + (Zw)^2 + (Zw)^2 = (Zw)^$							
14 15 Cluster: 16 17	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.7	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (2x)^2 - (x^2) = (x^2 - y^2)^2 + (2x)^2 - (x^2 - y^2)^2 = (x^2 - y^2)^2 + (x^2 - y^2)^2 +$							
14 15 Cluster: 16 17 DOMAIN	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.7 : HS.A-CED Crr	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (xy^2) = (x^2 - y^2)^2 + (xy^2 - y^2)^2 + (xy^$							
14 15 Cluster: 16 17 DOMAIN	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.7 : HS.A-CED Crr	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (zx)^2 - (x^2) - y^2)^2 + (zx)^2 - (x^2 - a b used to generate Pythogorean triples. (+) Know and apply the Binomial Theorem for the expansion of (x+y)^{n} in powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle. al expressions. Rewrite simple rational expressions in different forms; write a(x)/b(x) is in spectra of (x)/b(x), where a(x), b(x), a(x), and (x) are polynomials with the degree a(x), b(x), a(x), and (x) are polynomials with the degree a(x), b(x), a(x), and (x) are polynomials using inspection, long division, or, for the more complicated examples, a computer algebra system. (4) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtract, multiply, and divide rational expressions.$							
14 15 Cluster: 16 17 DOMAIN Cluster:	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.7 : HS.A-CED Crr Create equati	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(k^2 + y^2)^2 = (Zw)^2 + (Z^2w)^2 + (Zw)^2 = (Zw)^2 + (Zw$							
14 15 Cluster: 16 17 DOMAIN Cluster: 18	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.7 : HS.A-CED Crr Create equati	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(k^2 + y^2)^2 = (Zw)^2 + (Z^2w)^2 + (Zw)^2 = (Zw)^2 = (Zw)^2 + (Zw)^2 = (Zw$							
14 15 Cluster: 16 17 DOMAIN Cluster: 18 19	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.7 : HS.A-CED Crit Create equati A.CED.1 A.CED.2	 Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity (x² + y²)² = (x² - y²)² + (2x)² / conbe used to generate Pythogoren triples. (+) Know and apply the Binomial Theorem for the expansion of (x+y) ⁿ in powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle. a expressions. Rewrite simple rational expressions in different forms; write a(x)/b (X) in the form q(X) + r(X)/b(X), where c(X), q(X), and r(X) are polynomials with the degree of r(X) less than the degree of b(X), using inspection, long division, or, for the more complicated examples, a computer algebra system. (+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; atting Equations X Create equations and unique inequalities in one variable and use them to solve problems. Include equations ansing from linear and quadratic functions, and simpler rational and exponential functions. Create equations in two or more variables to represent relationships. Create equations in the or mere of a system son coordinate axes with labels and scales. Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. For example, represent inequalities, or inequalities, and a polyne, represent inequalities, arg equations, for example, represent inequalities, and ingervalities, and interpret solutions as viable or non-viable options in a modeling context. For example, represent inequalities describing nutrification and cost constraints on combinations of different foods. Rearrange formulas to highlight a quantity of interest, using the same rea							
14 15 Cluster: 16 17 DOMAIN Cluster: 18 19 20 21	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.7 : HS.A-CED Crr Create equati A.CED.1 A.CED.2 A.CED.2 A.CED.3 A.CED.4	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (zx)^2$ can be used to generate Pythogrean triples. (+) Know and apply the Binomial Theorem for the expansion of $(x+y)^2$ in powers of x and y for a positive integer <i>n</i> , where x and y are any mumbers, with coefficients determined for example by Pascal's Triangle. al expressions. Rewrite simple rational expressions in different forms; write $a(x)/b$ (x) in the form $q(x) + r(x)/b(x)$, where $a(x), b(x), q(x)$, and $r(x)$ are polynomials with the degree of $r(x)$ less than the degree of $b(x)$, using inspection, long division, or , for the more complicated examples, a computer algebra system. (+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiply, and divide rational expressions. atuge Equations d (use equations arising from linear and quadratic functions, and simple rational expressions in a system analogous to the rational numbers or relationships. Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions. Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nor. viable politons in a modeling context. For example, represent inequalities during and cast constraints on combine constra							
14 15 Cluster: 16 17 DOMAIN Cluster: 18 19 20 21 DOMAIN	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.6 A.APR.7 : HS.A-CED Cr Create equati A.CED.1 A.CED.2 A.CED.3 A.CED.4 : HS.A-REI Rea	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity (x² + y²)² = (x² - y²)² + (2x)² con be used to generate Pythogorean triples. (+) Know and apply the Binomial Theorem for the expansion of (x+)/ ni powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle. al expressions. Rewrite simple rational expressions in different forms; write a(x)/b (x) in the form q(x) + r(x)/b(x), where coefficients determined for example by Pascal's Triangle. al expressions. Rewrite simple rational expressions in different forms; write a(x)/b (x) in the form q(x) + r(x)/b(x), where coefficients determined for example, a computer algebra system. (+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division y a nonzer ortaible and use them to solve problems. Include equations and/solve and and a exponential functional expression; add, subtract, multiply, and divide rational expressions. Create equations in two or more variable and use them to solve problems. Include equations and inequalities in one variable and use them to solve problems. Include equations on coordinate axes with labels and scales. Represent constraints by equations on coordinate axes with labels and scales. Represent constraints by equations or ionequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. For example, represent inequalities, and ingitight a quantity of interest, using the same reasoning as in solving equations. For example, represent combinations of different foods. Rearrange formulas to highlight resistance R. soning with equations and inequalities describing nutritional and cost constraints on combinations of different foods. Rearrange formulas to highlight resistance R. soning with equations and inequalities and repares of example p							
14 15 Cluster: 16 17 DOMAIN Cluster: 18 19 20 21 DOMAIN	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.6 A.APR.7 : HS.A-CED Cr Create equati A.CED.1 A.CED.2 A.CED.3 A.CED.4 : HS.A-REI Rea	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity (x ² + y ²) ² = (x ² - y ²) ² + (zx) ² = (x ² - y ²) ² = (x							
14 15 Cluster: 16 17 DOMAIN Cluster: 18 19 20 21 DOMAIN Cluster: 22	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.6 A.APR.7 : HS.A-CED Cr Create equati A.CED.1 A.CED.2 A.CED.2 A.CED.3 A.CED.4 : HS.A-REI Rea Understand sr	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (x^2) - y^2)^2 = (x^2 - y^2)^2 + (x^2) - y^2)^2 = (x^2 - y^2)^2 + (x^2)^2 - (x^2) - (x^2 - y^2)^2 = (x^2 - y^2)^2 + (x^2)^2 - (x^2 - y^2)^2 = (x^2 - y^2)^2 + (x^2)^2 - (x^2 - y^2)^2 = (x^2 - y^2)^2 + (x^2)^2 - (x^2 - y^2)^2 + (x^2)^2 + (x^2 - y^2)^2 + (x^2 - y^2)^2$							
14 15 Cluster: 16 17 DOMAIN Cluster: 18 19 20 21 DOMAIN Cluster: 22	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.6 A.APR.7 : HS.A-CED Cr Create equati A.CED.1 A.CED.2 A.CED.2 A.CED.3 A.CED.4 : HS.A-REI Rea Understand sr	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity (x ² + y ²) ² = (x ² - y ²) ² + (zx) ² = (x ² - y ²) ² = (x							
14 15 Cluster: 16 17 DOMAIN Cluster: 18 19 20 21 DOMAIN Cluster: 22	A.APR.4 A.APR.5 Rewrite ration A.APR.6 A.APR.6 A.APR.7 : HS.A-CED Cr Create equati A.CED.1 A.CED.2 A.CED.2 A.CED.3 A.CED.4 : HS.A-REI Rea Understand sr	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity (x² + y²)² = (x² - y²)² + (2x)² con be used to generate Pythogorean triples. (+) Know and apply the Binomial Theorem for the expansion of (x+)/ ni powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle. al expressions. Rewrite simple rational expressions in different forms; write a(x)/b (x) in the form q(x) + r(x)/b(x), where c x), b(x), q(x), and r(x) are polynomials with the degree of (x) less than the degree of b(x), using inspection, long division, or, for the more complicated examples, a computer algebra system. (+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzer ortaible and use them to solve problems. Include equations arising from linear and quadratic functions, and simpler rational and exponential functions. Create equations in two or more variables and use them to solve problems. Include equations on iconglinets, and swithes or for examples, a cestribing nutrities; and interpret solutions as viable or non-viable options in a modeling context. For example, represent inequalities describing nutrities, and interpret solutions as viable or non-viable options in a modeling context. For example, represent inequalities, and inglight a quantity of interest, using the same reasoning as in solving equations. For example, represent inequalities describing nutritional and residentia of the solutions and average (Dhm'S law V = IR to highlight resistance R. Soning with equations and requalities; and nequalities days and reasoning. Solve examples, showing how extraneous solutions may arise.							

cluster:	interpret func	tions that arise in applications in terms of the context. For a function that models a relationship between two quantities,						
		interpret key features of graphs and tables in terms of the						
		quantities, and sketch graphs showing key features given a verbal						
24	F.IF.4	description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or						
		negative; relative maximums and minimums; symmetries; end						
		behavior; and periodicity. 🖈						
		Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the						
25	F.IF.5	function h(n) gives the number of person-hours it takes to assemble n						
		engines in a factory, then the positive integers would be an						
		appropriate domain for the function. 🖈						
26	F.IF.6	Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval.						
		Estimate the rate of change from a graph.★						
Cluster:	Analyze functi	ons using different representations.						
27	F.IF.7	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more						
27	1	complicated cases. ★						
28	F.IF.7.b	Graph square root, cube root, and piecewise-defined functions,						
		including step functions and absolute value functions. Graph polynomial functions, identifying zeros when suitable						
29	F.IF.7.c	factorizations are available, and showing end behavior.						
30	F.IF.7.e	Graph exponential and logarithmic functions, showing intercepts						
50	r.ir.7.e	and end behavior, and trigonometric functions, showing period, midline, and amplitude.						
31	F.IF.8	Write a function defined by an expression in different but equivalent						
-	-	forms to reveal and explain different properties of the function. Compare properties of two functions each represented in a different						
		way (algebraically, graphically, numerically in tables, or by verbal						
32	F.IF.9	descriptions). For example, given a graph of one quadratic function						
		and an algebraic expression for another, say which has the larger maximum.						
	: HS.F-BF Build	ing Functions		l				
Cluster:	Build a function	n that models a relationship between two quantities.						
33	F.BF.1	Write a function that describes a relationship between two quantities. ★						
		Combine standard function types using arithmetic operations. For						
34	F.BF.1.b	example, build a function that models the temperature of a cooling						
		body by adding a constant function to a decaying exponential, and relate these functions to the model.						
Cluster:	Build new fun	ctions from existing functions.	1					
		Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(x) = d f(x, y) f(x) + k$, $k f(x)$, $f(x) = d f(x, y) f(x) + k$, $k f(x)$, $f(x) = d f(x, y) f(x) + k$, $k f(x) = d f(x, y) + k$.						
		(kx), and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and						
35	F.BF.3	illustrate an explanation of the effects on the graph using						
		technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.						
36	F,BF.4	Find inverse functions.						
		Solve an equation of the form $f(x) = c$ for a simple function f that has						
37	F.BF.4.a	an inverse and write an expression for the inverse. For example, $f(x) = 2x^3$ or $f(x) = (x+1)/(x-1)$ for $x \neq 1$.						
DOMAIN	: HS.F-LE Linea	; Quadratic, and Exponential Models ★						
Cluster:	Construct and	compare linear, quadratic, and exponential models and solve probler	15.			-		
38	F.LE.4	For exponential models, express as a logarithm the solution to $ab^{ct} = d$ where a , c , and d are numbers and the base b is 2, 10, or e ;						
30	F.LE.4	evaluate the logarithm using technology.						
		nometric Functions						
Cluster:	Extend the do	main of trigonometric functions using the unit circle.				[
39	F.TF.1	Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle.						
		Explain how the unit circle in the coordinate plane enables the						
40	F.TF.2	extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the						
		unit circle.						
Cluster:	Model period	c phenomena with trigonometric functions.	1					
41	F.TF.5	Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.★						
Cluster:	Prove and app	ly trigonometric identities.					I	
		Prove the Pythagorean identity $\sin^2(\theta) + \cos^2(\theta) = 1$ and use it to find						
42	F.TF.8	$sin(\theta)$, $cos(\theta)$, or $tan(\theta)$ given $sin(\theta)$, $cos(\theta)$, or $tan(\theta)$ and the quadrant of the angle.						
DOMAIN	: HS.S-ID - Inte	quadrant of the angle. preting Categorical and Quantitative Data						
		present, and interpret data on a single count or measurement variable	e					
		Use the mean and standard deviation of a data set to fit it to a						
43	S.ID.4	normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not						
		appropriate. Use calculators, spreadsheets, and tables to estimate						
DOMANT		areas under the normal curve.						
		ing Inferences and Justifying Conclusions Ind evaluate random processes underlying statistical experiments.						
		Understand statistics as a process for making inferences about						
44	S.IC.1	population parameters based on a random sample from that						
		population. Decide if a specified model is consistent with results from a given						
45	S.IC.2	data-generating process, e.g., using simulation. For example, a						
		model says a spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model?						
Cluster:	Make inference	es and justify conclusions from sample surveys, experiments, and obs	ervational studies.	I			·	
		Recognize the purposes of and differences among sample surveys,						
46	S.IC.3	experiments, and observational studies; explain how randomization relates to each.						
		Use data from a sample survey to estimate a population mean or						
47	S.IC.4	proportion; develop a margin of error through the use of simulation						
		models for random sampling. Use data from a randomized experiment to compare two						
48	S.IC.5	treatments; use simulations to decide if differences between						
	S.IC.6	parameters are significant. Evaluate reports based on data.						
40							1	
49 DOMAIN		ng Probability to Make Decisions						
DOMAIN	: HS.S-MD - Us	ng Probability to Make Decisions y to evaluate outcomes of decisions.						

50	S.MD.6	(+) Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator).				
51	S.MD.7	(+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).				

Section	2: Math Content Review			
PUBLISH	ERS/PROVIDERS:			
	ath Content Review tab will be completed solely by the rev		<i>·</i> ·	ir score
	he material based on their overall review of the material.		· · ·	
	aterial will be scored for alignment with each criterion as "	Meets expe	ectations", "Partially meets expectations", or	
	not meet expectations".		Required: Reviewer's Evidence from Material	
Criteria	Grades K-12 Math Content Criteria	Score	Include where you found the evidence in the material and what	Comments, citations, notes
#			evidence you found that supports your score.	
	REA 1: RIGOR AND MATHEMATICAL PRACTICES			
	s support student mastery through a grade-appropriate b			application.
Materia	s meaningfully connect the Content Standards (CCSS) with	h the Stand	lards for Mathematical Practice (SMPs).	[
	Conceptual Understanding:			
1	Materials support the intentional development of			
	students' conceptual understanding of key mathematical concepts.			
	Procedural Skill and Fluency:			
	Materials support intentional opportunities for students			
2	to develop procedural skills and fluencies in alignment			
	with what is called for in the grade-level standards.			
	Application:			
	Materials support students' ability to leverage			
3	mathematical skills, concepts, representations, and			
	strategies across a range of contexts, (including applying			
	learning to real-world situations and new contexts).			
	Balance of Rigor:			
	With equitable intensity			
4	The three aspects of rigor are not always treated			
	together and are not always treated separately. The three aspects are balanced with respect to the standards			
	being addressed in each grade level.			
	SMPs 1 and 6			
	Materials support the intentional development of			
5	making sense of problems and attending to precision as			
	required by the mathematical practice standards 1 and			
	6.			
	SMPs 2 and 3			
	Materials support the intentional development of			
6	reasoning abstractly and quantitatively, along with			
	developing viable arguments and critiquing the			
	reasoning of others, in connection to the content			
-	standards, as required by the practice standards 2 and 3. SMPs 4 and 5			
	Materials support the intentional development of			
7	modeling and using tools, in connection to the content			
	standards, as required by the mathematical practice			
	standards, as required by the mathematical practice			
	SMPs 7 and 8			
	Materials support the intentional development of seeing			
8	structure and generalizing, in connection to the content			
	standards, as required by the mathematical practice			
	standards 7 and 8.			

FOCUS	AREA 2: STUDENT CENTERED INSTRUCTION					
Materia	Materials contain embedded resources (routines, strategies, and pedagogical suggestions) to support all students in developing a positive					
mathen	nathematical identity, cultivating self-efficacy, and seeing themselves as a contributor to the math community.					
	Materials provide students with opportunities to					
9	develop self-efficacy and a positive mathematical					
9	identity through opportunities to engage in grade-level					
	tasks using various sharing strategies and approaches.					
10	Materials provide opportunities for students to see					
10	themselves as contributors to the math community.					

FOCUS A	REA 3: INSTRUCTIONAL SUPPORTS FOR ALL STAKEHOLDE	RS		
	s provide guidance and resources to support educators in			
	iated instruction to all students. Materials contain helpfu	resources	to support implementation and instruction (e.g. materi	als for
leaders,	teachers, students, families/ caregivers, etc).			
	Teacher materials contain full, adult-level explanations			
	and examples of the mathematics concepts within			
11	lessons so teachers can improve their own knowledge of			
	the subject. Materials are in print or clearly			
	distinguished/accessible as a teacher's edition in digital			
	materials.			
	The materials provide guidance for unit/lesson			
12	preparation to support use of the materials as intended			
12	and to further develop the teachers' own understanding			
	of the mathematical approach.			
	Teacher materials provide insight into students' ways of			
13	thinking with respect to important mathematical			
13	concepts, especially anticipating a variety of student			
	responses.			
	Materials contain strategies for informing parents or			
14	caregivers about the mathematics program and			
14	suggestions for how they can help support student			
	progress and achievement.			

Section	2: All Content Review			
PUBLISH	ERS/PROVIDERS:			
• The Al	I Content Review tab will be completed solely by the review	vers. They	will score each criterion and provide evidence for their sc	core
from t	he material based on their overall review of the material.	/ou will not	provide any citations for this tab.	
• The m	aterial will be scored for alignment with each criterion as "	Meets expe	ectations", "Partially meets expectations", or	
"Does	not meet expectations".			
Criteria	All Contout Criteria Basian		Required: Reviewer's Evidence from Material	
#	All Content Criteria Review	Score	Include where you found the evidence in the material and what evidence you found that supports your score.	Comments, citations, notes
FOCUS A	REA 1: COHERENCE			
	onal materials are coherent and consistent with the New	Mexico Coi	ntent Standards	
	tudents should study in order to be college- and career-re			
	Instructional materials address the full content			
1	contained in the standards for all students by grade			
	level.			
2	Instructional materials support students to show			
2	mastery of each standard.			
	Instructional materials require students to engage at a			
3	level of maturity appropriate to the grade level under			
	review.			
	Instructional materials are coherent, making meaningful			
4	connections for students by linking the standards within			
	a lesson and unit.			
	REA 2: WELL-DESIGNED LESSONS			
Instructi	onal materials take into account effective lesson structure	and pacin	g.	
	The Teacher Edition presents learning progressions to			
_	provide an overview of the scope and sequence of skills			
5	and concepts. The design of the assignments shows a			
	purposeful sequencing of teaching and learning			
	expectations.			
6	Within each lesson of the instructional materials, there			
6	are clear, measurable, standards-aligned content			
	objectives. Within each lesson of the instructional materials, there			
7	are clear, measurable language objectives tied directly			
· ·	to the content objectives.			
	Instructional materials provide focused resources to			
8	support students' acquisition of both general academic			
-	vocabulary and content-specific vocabulary.			
	The visual design of the instructional materials (whether			
9	in print or digital) maintains a consistent layout that			
	supports student engagement with the subject.			
10	Instructional materials incorporate features that aid			
10	students and teachers in making meaning of the text.			
	Instructional materials provide students with ongoing			
11	review and practice for the purpose of retaining			
	previously acquired knowledge.			
FOCUS A	REA 3: RESOURCES FOR PLANNING			
	onal materials provide teacher resources to support plan	ning, learni	ng,	
and und	erstanding of the New Mexico Content Standards.			
	Instructional materials provide a list of lessons in the			
	Teacher Edition (in print or clearly distinguished/			
12	accessible as a teacher's edition in digital materials),			
	cross-referencing the standards addressed and providing			
	an estimated instructional time for each lesson, chapter,			
	and unit.			
12	Instructional materials support teachers with			
13	instructional strategies to help guide students' academic			
	development. Instructional materials include a teacher edition/			
	teacher-facing material with useful annotations and			
14	suggestions on how to present the content in the			
1 14	student edition/student-facing material and in the			
	supporting material.			
L	rr0		1	

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15	Instructional materials integrate opportunities for digital			
	learning, including interactive digital components.			
	AREA 4: ASSESSMENT			
	ional materials offer teachers a variety of assessment reso		tools	
to collec	ct ongoing data about student progress related to the stan	dards.		
	Instructional materials provide a variety of assessments			
	that measure student progress in all strands of the			
16	standards for the content under review.			
	(Adopted New Mexico Content Standards for 2024: NM			
	STEM Ready Science Standards)			
	Instructional materials provide multiple formative and			
17	summative assessments, clearly defining which			
	standards are being assessed through content and			
	language objectives.			
	Instructional materials provide scoring guides for			
	assessments that are aligned with the standards they			
18	address, and that offer teachers guidance in interpreting			
	student performance and suggestions for further			
	instruction, differentiation, and/or acceleration.			
	Instructional materials provide appropriate assessment			
19	alternatives for English Learners, Culturally and			
	Linguistically Diverse students, advanced students, and			
	special needs students.			
20	Instructional materials include opportunities to assess			
20	student understanding and knowledge of the standards			
50000	using technology.			
	AREA 5: EXTENSIVE SUPPORT		to overlage lies companys	
Instruct	ional materials give all students extensive opportunities and	ia support	to explore key concepts.	
21	Instructional materials can be customized or adapted to			
	meet the needs of different student populations.			
22	Instructional materials provide differentiated strategies			
22	and/or activities to meet the needs of students working below proficiency and those of advanced learners.			
	Instructional materials provide appropriate linguistic			
	support for English Learners and Culturally and			
	Linguistically Diverse students, and accommodations			
23	and modifications for other special populations that will			
	support their regular and active participation in learning			
	content.			
	Instructional materials provide strategies and resources			
	for teachers to inform and engage parents, family			
24	members, and caregivers of all learners about the			
	program and provide suggestions for how they can help			
	support student progress and achievement.			
	Instructional materials include opportunities for all			
	students that encourage and support critical and			
25	creative thinking, inquiry, and complex problem-solving			
	skills.			
FOCUS A	AREA 6: CULTURAL AND LINGUISTIC PERSPECTIVES			
Instruct	ional materials represent a variety of cultural and linguisti	c perspecti	ves.	
	Instructional materials inform culturally and linguistically			
26	responsive pedagogy by affirming students' backgrounds			
20	in the materials themselves and in the student			
	discussions.			
	Instructional materials provide a collection of images,			
27	stories, and information, representing a broad range of			
21	demographic groups, and do not make generalizations			
	or reinforce stereotypes.			
	Instructional materials provide context, illustrations, and			
28	activities for students to make interdisciplinary			
20	connections and/or connections to real-life experiences			
	and diverse cultural and linguistic backgrounds.			
	AREA 7: INCLUSION OF CULTURALLY AND LINGUISTICALLY F			
Instruct	ional materials highlight diversity in culture and language	through m	ultiple perspectives.	

29	Instructional materials include tools and resources to relate the content area appropriately to diversity in		
30	culture and language. Instructional materials include tools and resources that demonstrate multiple perspectives in a specific concept.		
31	Instructional materials engage students in critical reflection about their own lives and societies, including cultures past and present in New Mexico.		
32	Instructional materials address multiple ethnic descriptions, interpretations, or perspectives of events and experiences.		

Stan	Standards for Mathematical Practice					
1	Make sense of problems and persevere in solving them.					
2	Reason abstractly and quantitatively.					
3	Construct viable arguments and critique the reasoning of others.					
4	Model with mathematics.					
5	Use appropriate tools strategically.					
6	Attend to precision.					
7	Look for and make use of structure.					
8	Look for and express regularity in repeated reasoning.					