Resource Title: Secondary Two Mathematics Student Edition

Publisher: Mathematics Vision Project

ISBN: This is an e-book located at <u>http://www.mathematicsvisionproject.org</u>

Media: internet pdf

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Core Subject Area: Secondary II Mathematics

Mathematics, Secondary II

Standard	Designated Sections
Domain: Number	
Extend the properties of exponents to rational exponents.	
N.RN.1 Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents. For example, we define $5^{1/3}$ to be the cube root of 5 because we want $(5^{1/3})^3 = 5^{(1/3)3}$ to hold, so $(5^{1/3})^3$ must equal 5.	Module 3 Task 1 Experimenting with Exponents Module 3 Task 2 Half Interested Module 3 Task 3 More Interesting Module 3 Task 4 Radical Ideas
N.RN.2 Rewrite expressions involving radicals and rational exponents using the properties of exponents.	Module 3 Task 3 More Interesting Module 3 Task 4 Radical Ideas
Use properties of rational and irrational numbers.	

N.RN.3 Explain why sums and products of rational numbers are rational, that the sum of a	Module 3 Task 9 My Irrational and Imaginary Friends
rational number and an irrational number is irrational, and that the product of a nonzero	Module 3 Task 10 iNumbers
rational number and an irrational number is irrational.	
Perform arithmetic operations with complex numbers.	
N.CN.1 Know there is a complex number i such that $i^2 = -1$, and every complex number has	Module 3 Task 9 My Irrational and Imaginary Friends
the form $a + bi$ with a and b real.	Module 3 Task 10 iNumbers
N.CN.2 Use the relation $i^2 = -1$ and the commutative, associative, and distributive properties	Module 3 Task 9 My Irrational and Imaginary Friends
to add, subtract, and multiply complex numbers.	Module 3 Task 10 iNumbers
Use complex numbers in polynomial identities and equations.	
N.CN.7 Solve quadratic equations with real coefficients that have complex solutions.	Module 3 Task 8 To Be Determined
	Module 3 Task 9 My Irrational and Imaginary Friends
N.CN.8 Extend polynomial identities to the complex numbers. For example, rewrite $x^2 + 4$ as	Module 3 Task 8 To Be Determined
(x + 2i)(x - 2i).	Module 3 Task 9 My Irrational and Imaginary Friends
N.CN.9 Know the Fundamental Theorem of Algebra; show that it is true for quadratic	Module 3 Task 8 To Be Determined
polynomials.	Module 3 Task 9 My Irrational and Imaginary Friends
Domain: Algebra	
Interpret the structure of expressions.	
	Mardula 4. Task 4. Consething to Talk About
A.SSE.1 Interpret expressions that represent a quantity in terms of its context.	Nodule 1 Task 1 Something to Talk About
a Interpret parts of an expression such as terms factors, and coefficients	Module 1 Task 4 Rabbit Pup
h Interpret complicated expressions by viewing one or more of their parts as a single	Module 1 Task 5 Look Out Below
β interpret complete expressions by viewing one of more of their parts as a single	Module 1 Task 6 Tortoise and Hare
entity. For example, interpret $P(1+r)^{-1}$ as the product of P and a factor not depending on P	
011 P.	

A.SSE.2 Use the structure of an expression to identify ways to rewrite it. For example, see x^4	Module 2 Task 3 Building The Perfect Square
4_{22} (2_{12}^{2} (2_{12}^{2} thus recognizing it as a difference of squares that can be factored as (2_{12}^{2}	Module 2 Task 4 Factor Fixin'
-y as $(x - y)$, thus recognizing it as a uniference of squares that can be factored as $(x - y)$.	Module 2 Task 5 Lining Up Quadratics
$-y^{2})(x^{2}+y^{2}).$	
Write expressions in equivalent forms to solve problems.	
A CCE 2 Channel and an envirolant form of an expression to reveal and evolution	Marshula D. Tank A. Fashan Finin/
A.SE.3 Choose and produce an equivalent form of an expression to reveal and explain	Module 2 Task 4 Factor Fixin Module 2 Task 5 Lining Un Quedraties
properties of the quantity represented by the expression.	Module 2 Task 5 Lining Up Quadratics
• Fortes a support is support in the second the second of the function it defines.	Module 2 Task 6 TVe Got a Fill-In
a. Factor a quadratic expression to reveal the zeros of the function it defines.	Module 3 Task 3 More Interesting
h. Complete the square in a quadratic expression to reveal the maxi- mum or	
minimum value of the function it defines	
c Use the properties of exponents to transform expressions for exponential	
$f_{\rm exp}$ is a subscription of exponents to distribute expressions for exponential	
functions. For example the expression 1.15° can be rewritten as $(1.15^{-7})^{7} \approx$	
1.012 ¹²¹ to reveal the approximate equivalent monthly interest rate if the annual	
rate is 15%.	
Perform arithmetic operations on polynomials.	
	Marchela 2. Tarek 40 Neurok ana
A.APK.1 Understand that polynomials form a system analogous to the integers, namely, they	Niodule 3 Task 10 INumbers
are closed under the operations of addition, subtraction, and multiplication; add, subtract,	
and multiply polynomials.	
create equations that describe numbers or relationships.	
A CED 1 Create equations and inequalities in one variable and use them to solve problems	Module 3 Task 6 Curbside Rivalry
Include equations arising from linear and quadratic functions, and simple rational and	Module 3 Task 7 Perfecting My Quads
exponential functions.	Module 3 Task 11 Quadratic Quandaries
A.CED.2 Create equations in two or more variables to represent relationships between	Module 1 Task 1 Something to Talk About
quantities: graph equations on coordinate axes with labels and scales.	Module 1 Task 2 I Rule
	Module 1 Task 4 Rabbit Run
	Module 1 Task 5 Look Out Below
	Module 1 Task 6 Tortoise and Hare
A.CED.4 Rearrange formulas to highlight a quantity of interest, using the same reasoning as	Module 3 Task 5 Throwing an Interception
in solving equations. For example, rearrange Ohm's law $V = IR$ to highlight resistance R.	Module 3 Task 6 Curbside Rivalry
	Module 3 Task 7 Perfecting My Quads

Solve equations and inequalities in one variable.	
 A.REI.4 Solve quadratic equations in one variable. Solve quadratic equation in x into an equation of the form (x - p)² = q that has the same solutions. Derive the quadratic formula from this form. b. Solve quadratic equations by inspection (e.g., for x² = 49), taking square roots, completing the square, the quadratic formula and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives complex solutions and write them as a ± bi for real numbers a and b. 	Module 3 Task 5 Throwing an Interception Module 3 Task 6 Curbside Rivalry Module 3 Task 7 Perfecting My Quads Module 3 Task 8 To Be Determined
Solve systems of equations.	
A.REI.7 Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically. For example, find the points of intersection between the line $y = -3x$ and the circle $x^2 + y^2 = 3$.	Module 3 Task 6 Curbside Rivalry Module 3 Task 7 Perfecting My Quads
Domain: Function	
Interpret functions that arise in applications in terms of a context.	
F.IF.4 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 description of the relationship. <i>Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.</i>	Module 4 Task 7 More Features, More Functions *This standard shows up as a related standard throughout many tasks in Modules 1, 2, 3, and 4.
F.IF.5 Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the 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.	Module 4Task 1Some of This, Some of ThatModule 4Task 2Bike LoversModule 4Task 2Bike LoversModule 4Task 3More Functions with FeaturesModule 4Task 4Reflections of a Bike Lover
 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. ★ 	Module 1 Task 5 Look Out Below Module 1 Task 6 Tortoise and the Hare Module 3 Task 1 Experimenting With Exponents
Analyze functions using different representations.	

 simple cases and using technology for more complicated cases. a. Graph linear and quadratic functions and show intercepts, maxima, and minima. b. Graph square root, cube root, and piecewise-defined functions, including step functions a. Graph linear and quadratic functions and show intercepts, maxima, and minima. b. Graph square root, cube root, and piecewise-defined functions, including step functions a. Graph square root, cube root, and piecewise-defined functions, including step function a. Graph square root, cube root, and piecewise-defined functions, including step function a. Graph square root, cube root, and piecewise-defined functions, including step function a. Graph square root, cube root, and piecewise-defined functions. F.JF.8 Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. a. Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context. b. Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions what as y = (1.02)¹, y = (1.01)¹2¹, y = (1.21)¹2¹1, y = (1.21)¹1, y = (1.21)¹2¹1, y = (1.21)¹2¹1, y = (1.21)¹1, y = (1.21)¹1, y = (1.21)¹1, y = (1.21)	F.IF.7 Graph functions expressed symbolically and show key features of the graph, by hand in	Module 2 Task 1 Shifty y's
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Module 1 Task 6 Tortoise and the Hare *This standard shows up as a related standard throughout many tasks in Modules 1, 2, 3, and 4. *This standard shows up as a related standard throughout many tasks in Modules 1, 2, 3, and 4. Build a function that models a relationship between two quantities. Module 1 Task 1 Something to Talk About Module 1 a. Determine an explicit expression, a recursive process, or steps for calculation from a context. Module 1 Task 2 I Rule b. Combine standard function types using arithmetic operations. For 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. Module 2 Task 4 Factor Fixin' Module 2 Task 5 Linning Up Quadratics	graphically, numerically in tables, or by verbal descriptions).	Module 1 Task 3 Scott's Macho March
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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. Module 2 Task 4 Factor Fixin' Module 2 Task 5 Lining Up Quadratics Module 2 Task 6 I've Got a Fill-in	b. Combine standard function types using arithmetic operations. For example, build	Module 1 Task 5 Look Out Below
function to a decaying exponential, and relate these functions to the model. Module 2 Task 4 Factor Fixin' Module 2 Task 5 Lining Up Quadratics Module 2 Task 6 I've Got a Fill-in	a function that models the temperature of a cooling body by adding a constant	Module 1 Task 6 Tortoise and Hare
Module 2 Task 5 Lining Up Quadratics Module 2 Task 6 I've Got a Fill-in	function to a decaying exponential, and relate these functions to the model.	Module 2 Task 4 Factor Fixin'
Module 2 Task 6 I've Got a Fill-in		Module 2 Task 5 Lining Lin Quadratics
		Would 2 Task 5 Lining op Quadratics

Build new functions from existing functions.	
F.BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, 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 illustrate an explanation of the effects on the graph using technology. <i>Include recognizing even and odd functions from their graphs and algebraic expressions for them.</i>	Module 2 Task 1 Shifty y's Module 2 Task 2 Transformer's: More Than Meets the y's
 F.BF.4 Find inverse functions. a. Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse. For example, f(x) = 2 x³ or f(x) = (x+1)/(x-1) for x =/1. c. (+) Read values of an inverse function from a graph or a table, given that the function has an inverse. d. (+) Produce an invertible function from a non-invertible function by restricting the domain. 	Module 4 Task 5 What's Your Pace? Module 4 Task 6 Bernie's Bikes
Construct and compare linear, quadratic, and exponential models and solve problems.	
F.LE.3 Observe using graphs and tables that a quantity increasing exponentially eventually exceeds a quantity increasing linearly, quadratically, or (more generally) as a polynomial function.	Module 1 Task 3 Scott's Macho March Module 1 Task 6 Tortoise and Hare Module 1 Task 7 How does it Grow?
Prove and apply trigonometric identities.	
F.TF.8 Prove the Pythagorean identity $\sin^2(\theta) + \cos^2(\theta) = 1$ and use it to find $\sin(\theta)$, $\cos(\theta)$, or tan (θ) , given $\sin(\theta)$, $\cos(\theta)$, or tan (θ) , and the quadrant of the angle.	Module 6 Task 9 Relationships with Meaning Module 6 Task 11 Solving Right Triangles Using Trigonometric Relationships
Domain: Geometry	
Prove geometric theorems.	
G.CO.9 Prove theorems about lines and angles. <i>Theorems include: verti- cal angles are congruent; when a transversal crosses parallel lines, alter- nate interior angles are congruent and corresponding angles are con- gruent; points on a perpendicular bisector of a line segment are exactly those equidistant from the segment's endpoints.</i>	Module 5Task 2Do You See What I See?Module 5Task 3It's All in Your HeadModule 5Task 4Parallelism PreservedModule 5Task 5Conjectures and ProofModule 6Task 5Measured Reasoning
G.CO.10 Prove theorems about triangles. Theorems include: measures of interior angles of a triangle sum to 180°; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point.	Module 5 Task 1 How Do You Know That? Module 5 Task 2 Do You See What I See? Module 5 Task 3 It's All in Your Head Module 5 Task 5 Conjectures and Proof

	Module 5 Task 8 Centers of a Triangle
	Module 6 Task 5 Measured Reasoning
G.CO.11 Prove theorems about parallelograms. Theorems include: op- posite sides are	Module 5 Task 2 Do You See What I See?
congruent, opposite angles are congruent, the diago- nals of a parallelogram bisect each	Module 5 Task 6 Parallelogram Conjectures and Proof
other, and conversely, rectangles are parallelograms with congruent diagonals.	Module 5 Task 7 Guess My Parallelogram
Understand similarity in terms of similarity transformations.	
G.SRT.1 Verify experimentally the properties of dilations given by a center and a scale factor.	Module 6 Task 1 Photocopy Faux Pas
 a. A dilation takes a line not passing through the center of the dilation to a parallel line, and leaves a line passing through the center unchanged. b. The dilation of a line segment is longer or shorter in the ratio given by the scale factor. 	
G.SRT.2 Given two figures, use the definition of similarity in terms of similarity transformations to decide if they are similar; explain using similarity transformations the meaning of similarity for triangles as the equality of all corresponding pairs of angles and the proportionality of all corresponding pairs of sides.	Module 6 Task 2 Triangle Dilations Module 6 Task 3 Similar Triangles and Other Figures
G.SRT.3 Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.	Module 6 Task 3 Similar Triangles and Other Figures
Prove theorems involving similarity.	
G.SRT.4 Prove theorems about triangles. <i>Theorems include: a line par- allel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.</i>	Module 6 Task 4 Cut By A Transversal Module 6 Task 5 Measured Reasoning Module 6 Task 7 Pythagoras By Proportions
G.SRT.5 Use congruence and similarity criteria for triangles to solve problems and to prove	Module 6 Task 2 Triangle Dilations
relationships in geometric figure	Module 6 Task 5 Measured Reasoning Module 6 Task 7 Pythagoras By Proportions
Define trigonometric ratios and solve problems involving right triangles.	
G.SRT.6 Understand that by similarity, side ratios in right triangles are properties of the	Module 6 Task 8 Are Relationships Predictable?

angles in the triangle, leading to definitions of trigonometric ratios for acute angles.	Module 6 Task 9 Relationships with Meaning
	Module 6 Task 11 Solving Right Triangles Using Trigonometric
	Relationships
G.SRT.7 Explain and use the relationship between the sine and cosine of complementary	Module 6 Task 9 Relationships with Meaning
angles.	Module 6 Task 10 Finding the Value of a Relationship
	Module 6 Task 11 Solving Right Triangles Using Trigonometric
	Relationships
G.SRT.8 Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in	Module 6 Task 8 Are Relationships Predictable?
applied problems.	Module 6 Task 10 Finding the Value of a Relationship
Understand and apply theorems about circles.	
G.C.1 Prove that all circles are similar.	Module 7 Task 2 Circle Dilations
G.C.2 Identify and describe relationships among inscribed angles, radii, and chords. Include	Module 7 Task 1 Centered
the relationship between central, inscribed, and circumscribed angles; inscribed angles on a	Module 7 Task 3 Cyclic Polygons
diameter are right angles; the radius of a circle is perpendicular to the tangent where the	Module 7 Task 6 Circular Reasoning
radius intersects the circle.	
G.C.3 Construct the inscribed and circumscribed circles of a triangle, and prove properties of	Module 7 Task 3 Cyclic Polygons
angles for a quadrilateral inscribed in a circle.	
G.C.4 Construct a tangent line from a point outside a given circle to the circle.	Module 7 Task 3 Cyclic Polygons
Find arc lengths and areas of sectors of circles.	
G.C.5 Derive using similarity the fact that the length of the arc intercepted by an angle is	Module 7 Task 7 Pied
proportional to the radius, and define the radian measure of the angle as the constant of	Module 7 Task 8 Madison's Round Garden
proportionality; derive the formula for the area of a sector.	Module 7 Task 9 Rays and Radians
Translate between the geometric description and the equation for a conic section.	
G.GPE.1 Derive the equation of a circle of given center and radius using the Pythagorean	Module 8 Task 1 Circling Triangles
Theorem; complete the square to find the center and radius of a circle given by an equation.	Module 8 Task 2 Getting Centered
	Module 8 Task 3 Circe Challenges
G.GPE.2 Derive the equation of a parabola given a focus and directrix.	Module 8 Task 4 Directing Our Focus
	Module 8 Task 5 Functioning with Parabolas
	Module 8 Task 6 Turn It Around
Use coordinates to prove simple geometric theorems algebraically.	

G.GPE.4 Use coordinates to prove simple geometric theorems algebraically. For example, prove or disprove that a figure defined by four given points in the coordinate plane is a rectangle; prove or disprove that the point $(1, \sqrt{3})$ lies on the circle centered at the origin and containing the point $(0, 2)$	Module 8 Task 1 Circling Triangles (Or Triangulating Circles) Module 8 Task 2 Getting Centered Module 8 Task 3 Circle Challenges
G.GPE.6 Find the point on a directed line segment between two given points that partitions the segment in a given ratio.	Module 6 Task 6 Yard Work in Segments
Explain volume formulas and use them to solve problems.	
 G.GMD.1 Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone. Use dissection arguments, Cavalieri's principle, and informal limit arguments. G.GMD.3 Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems. 	Module 7 Task 4 Planning the Gazebo Module 7 Task 5 From Polygons to Circles Module 7 Task 10 Sand Castles Module 7 Task 10 Sand Castles
Domain: Statistics	
Understand independence and conditional probability and use them to interpret data.	
S.CP.1 Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events ("or," "and," "not").	Module 9 Task 3 Fried Freddy's *S.CP.1 is a related standard in several tasks throughout Module 9
S.CP.2 Understand that two events <i>A</i> and <i>B</i> are independent if the probability of <i>A</i> and <i>B</i> occurring together is the product of their probabilities, and use this characterization to determine if they are independent.	Module 9 Task 3 Fried Freddy's Module 9 Task 5 Freddy Revisited Module 9 Task 6 Striving for Independence
S.CP.3 Understand the conditional probability of <i>A</i> given <i>B</i> as <i>P</i> (<i>A</i> and <i>B</i>)/ <i>P</i> (<i>B</i>), and interpret independence of <i>A</i> and <i>B</i> as saying that the conditional probability of <i>A</i> given <i>B</i> is the same as the probability of <i>A</i> , and the conditional probability of <i>B</i> given <i>A</i> is the same as the probability of <i>B</i> .	Module 9 Task 5 Freddy Revisited Module 9 Task 6 Striving for Independence
S.CP.4 Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities. <i>For example, collect data from a random sample of students in your school on their favorite subject among math, science, and English. Estimate the probability that a randomly selected student from your school will favor science given that the student is in tenth grade. Do the same for other subjects and compare the results.</i>	Module 9 Task 2 Chocolate vs Vanilla Module 9 Task 5 Freddy Revisited Module 9 Task 6 Striving for Independence
S.CP.5 Recognize and explain the concepts of conditional probability and independence in	Module 9 Task 5 Freddy Revisited

everyday language and everyday situations. For ex- ample, compare the chance of having lung cancer if you are a smoker with the chance of being a smoker if you have lung cancer.	Module 9 Task 6 Striving for Independence
Use the rules of probability to compute probabilities of compound events in a uniform proba	bility model.
S.CP.6 Find the conditional probability of <i>A</i> given <i>B</i> as the fraction of <i>B</i> 's outcomes that also belong to <i>A</i> , and interpret the answer in terms of the model.	Module 9 Task 1 TB or Not TB Module 9 Task 2 Chocolate vs Vanilla Module 9 Task 3 Fried Freddy's Module 9 Task 4 Visualizing with Vonn
	Module 9 Task 6 Striving for Independence
S.CP.7 Apply the Addition Rule, $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$, and interpret the answer in terms of the model.	Module 9 Task 3 Fried Freddy's Module 9 Task 4 Visualizing with Venn
S.CP.8 (+) Apply the general Multiplication Rule in a uniform probability model, $P(A \text{ and } B) = P(A)P(B A) = P(B)P(A B)$, and interpret the answer in terms of the model.	Module 9 Task 6 Striving for Independence

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