

UNIT 1: Real Numbers and Connections to Algebra		
	Lessons	
	1.1	Real Numbers
Module 1: Real Numbers and Real-World Quantities	1.2	Radicals and Rational Exponents
Real World Qualitities	1.3	Precision and Accuracy in Calculations
	Lessons	
	2.1	Write, Interpret, and Simplify Expressions
Module 2: Linear Equations	2.2	Write and Solve Equations
and Inequalities in One	2.3	Rewrite Formulas and Solve Literal Equations
Variable	2.4	Write and Solve Inequalities
	2.5	Write and Solve Compound Inequalities
UN	IIT 2: Line	ear Equations in Two Variables
	Lessons	
Module 3: Linear Equations	3.1	Linear Equations in Standard Form
in Two Variables	3.2	Slopes of Lines and Rates of Change
	Lessons	
	4.1	Relations and Functions
Module 4: Linear Functions	4.2	Linear Functions
and Models	4.3	Characteristics of Linear Functions
	4.4	Linear Models and Point-Slope Form
	Lessons	
	5.1	Transform Graphs
Module 5: Relationships	5.2	Transform Linear Functions
Among Linear Functions	5.3	Compare Linear Functions
	5.4	Inverses of Linear Functions
UN	IT 3: Build	d Linear Functions and Models
	Lessons	
Module 6: Fit Linear	6.1	Scatter Plots, Correlation, and Fitted Lines
Functions to Data	6.2	Residuals and Best-Fit Lines
	Lessons	
Module 7: Discrete Linear	7.1	Arithmetic Sequences Defined Recursively
Functions	7.2	Arithmetic Sequences Defined Explicitly

	Lessons		
	8.1	Graph Piecewise-Defined Functions	
Module 8: Piecewise- Defined Functions	8.2	Graph Absolute Value Functions	
Defined Functions	8.3	Absolute Value Equations and Inequalities	
	U	NIT 4: Linear Systems	
	Lessons		
	9.1	Solve Linear Systems by Graphing	
Module 9: Systems of	9.2	Solve Linear Systems by Substitution	
Linear Equations	9.3	Solve Linear Systems by Adding or Subtracting	
	9.4	Solve Linear Systems by Multiplying First	
	Lessons		
Module 10: Linear	10.1	Linear Inequalities in Two Variables	
Inequalities	10.2	Graph Systems of Linear Inequalities	
UNIT 5: Functions and Equations			
	Lessons		
Madula 11. Eva an antial	11.1	Exponential Growth Functions	
Module 11: Exponential Functions and Models	11.2	Exponential Decay Functions	
	11.3	Exponential Models and Equations	
	Lessons		
Module 12: Relationships	12.1	Transform Exponential Functions	
Among Exponential Functions	12.2	Compare Exponential Functions	
UNIT	UNIT 6: Build Exponential Functions and Models		
	Lessons		
Module 13: Fit Exponential	13.1	Scatter Plots and Fitted Exponential Curves	
Functions to Data	13.2	Choose Between Linear and Exponential Models	
	Lessons		
Module 14: Discrete	14.1	Geometric Sequences Defined Recursively	
Module 14. Discrete			

UNIT 7: Polynomial Operations and Models		
	Lessons	
	15.1	Multiply Monomials
Module 15: Polynomial Multiplication	15.2	Multiply Monomials, Binomials, and Trinomials
Marapheation	15.3	Special Products of Binomials
	Lessons	
Module 16: Polynomial	16.1	Add and Subtract Polynomials
Addition and Subtraction	16.2	Model with Polynomials
UN	T 8: Qua	dratic Functions and Equations
	Lessons	
	17.1	Solve Quadratic Equations by Graphing Quadratic Functions
Module 17: Use Graphing and Factoring to Solve	17.2	Solve Quadratic Equations by Factoring $x^2 + bx + c$
Quadratic Equations	17.3	Solve Quadratic Equations by Factoring $ax^2 + bx + c$
	17.4	Use Special Factoring Patterns to Solve Quadratic Equations
	Lessons	
	18.1	Solve Quadratic Equations by Taking Square Roots
Module 18: Use Square Roots to Solve Quadratic	18.2	Solve Quadratic Equations by Completing the Square
Equations	18.3	Use the Quadratic Formula to Solve Equations
	18.4	Choose a Method for Solving Quadratic Equations
	UNIT	9: Functions and Models
	Lessons	
	19.1	Quadratic Functions in Vertex Form
Module 19: Build Quadratic	19.2	Quadratic Functions in Standard Form
Functions and Models	19.3	Quadratic Functions in Intercept Form
r arronorio arra i rodelo	19.4	Compare Quadratic Functions and Models
	19.5	Scatter Plots and Fitted Quadratic Curves
	Lessons	
	20.1	Choose Among Linear, Exponential, and Quadratic Models
Module 20: Function	20.2	Perform Operations with Functions
Analysis	20.3	Solve Nonlinear Systems
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UNIT 10: Data Analysis		
	Lessons	
Module 21: Categorical	21.1	Two-Way Frequency and Relative Frequency Tables
Data	21.2	Recognize Possible Associations Between Categorical Variables
	Lessons	
Mad Is 22 November 1 Date	22.1	Data Distributions and Appropriate Statistics
Module 22: Numerical Data	22.2	Compare Data Distributions

UNIT 1: The Essentials of Geometry		
	Lessons	
	1.1	Points, Lines, and Planes
Module 1: Geometry	1.2	Define and Measure Angles
in the Plane	1.3	Polygons and Figures in the Plane
	1.4	Length in the Coordinate Plane
	Lessons	
	2.1	Write Conditional Statements
Module 2: Tools for	2.2	Use Inductive and Deductive Reasoning
Reasoning and Proof	2.3	Write Proofs about Segments
	2.4	Write Proofs about Angles
UI	NIT 2: Par	allel and Perpendicular Lines
	Lessons	
Madala 7:1:	3.1	Parallel Lines Crossed by a Transversal
Module 3: Lines and Transversals	3.2	Prove Lines Are Parallel
Transversars	3.3	Prove Lines Are Perpendicular
	Lessons	
Madala (. Linas an de a	4.1	Slope and Equations of Parallel Lines
Module 4: Lines on the Coordinate Plane	4.2	Slope and Equations of Perpendicular Lines
	4.3	Use Coordinates to Prove Statements about Segments
	UN	IT 3: Transformations
	Lessons	
	5.1	Define and Apply Translations
Module 5: Transformations that Preserve Size and	5.2	Define and Apply Rotations
Shape	5.3	Define and Apply Reflections
	5.4	Define and Apply Symmetry
	Lessons	
Module 6: Transformations	6.1	Define and Apply Dilations and Stretches
that Change Size and Shape	6.2	Apply Sequences of Transformations

UNIT 4: Triangle Congruence		
	Lessons	
M 11 70	7.1	Understand Congruent Figures
Module 7: Congruent Triangles and Polygons	7.2	Corresponding Parts of Congruent Figures
mangles and rolygons	7.3	Use Rigid Motions to Prove Figures Are Congruent
	Lessons	
	8.1	Develop ASA Triangle Congruence
Module 8: Triangle	8.2	Develop SAS Triangle Congruence
Congruence Criteria	8.3	Develop SSS Triangle Congruence
	8.4	Develop AAS and HL Triangle Congruence
ι	JNIT 5: Re	elationships Within Triangles
	Lessons	
	9.1	Angles in Triangles
M 11 05 (9.2	Perpendicular Bisectors
Module 9: Properties of Triangles	9.3	Angle Bisectors
mungles	9.4	Medians and Altitudes
	9.5	The Triangle Midsegment Theorem
	Lessons	
Module 10: Triangle	10.1	Inequalities in One Triangle
Inequalities	10.2	Inequalities in Two Triangles
UNIT 6: Q	uadrilate	rals, Polygons, and Triangle Similarity
	Lessons	
	11.1	Properties of Parallelograms
N4 1 1 11 0 11 1	11.2	Conditions for Parallelograms
Module 11: Quadrilaterals and Polygons	11.3	Properties of Rectangles, Rhombuses, Squares
and Folygons	11.4	Conditions for Rectangles, Rhombuses, Squares
	11.5	Properties and Conditions for Trapezoids and Kites

	Lessons	
	12.1	Use Transformations to Prove Figures Are Similar
Madula 12: Cincilarity	12.2	Develop AA Triangle Similarity
Module 12: Similarity	12.3	Develop and Prove Triangle Proportionality
	12.4	Apply Similarity in Right Triangles
	UNIT 7: R	Right Triangle Trigonometry
	Lessons	
	13.1	Tangent Ratio
Module 13: Trigonometry	13.2	Sine and Cosine Ratios
with Right Triangles	13.3	Special Right Triangles
	13.4	Modeling with Similar Right Triangles
	Lessons	
Module 14: Trigonometry	14.1	Law of Sines
with All Triangles	14.2	Law of Cosines
UNIT 8: Circles		
	Lessons	
Module 15: Lines that	15.1	Central Angles and Inscribed Angles
	15.2	Angles in Inscribed Quadrilaterals
Intersect Circles	15.3	Tangents and Circumscribed Angles
	15.4	Circles in the Coordinate Plane
	Lessons	
Module 16: Relationships in	16.1	Segment Relationships in Circles
Circles	16.2	Angle Relationships in Circles
	Lessons	
N4 1 1 17 0: (17.1	Measure Circumference and Area of a Circle
Module 17: Circumference and Area	17.2	Measure Arc Length and Use Radians
		1

UNIT 9: Surface Area and Volume			
	Lessons		
	18.1	Three-Dimensional Figures	
Madula 19: Curferas Avan	18.2	Surface Area of Prisms and Cylinders	
Module 18: Surface Area	18.3	Surface Area of Pyramids and Cones	
	18.4	Surface Area of Spheres	
	Lessons		
	19.1	Volume of Prisms and Cylinders	
Module 19: Volume	19.2	Volume of Pyramids, and Cones	
	19.3	Volume of Spheres	
	UNIT 10: Probability		
	Lessons		
Module 20: Probability of	20.1	Probability and Set Theorem	
Multiple Events	20.2	Mutually Exclusive and Overlapping Events	
	Lessons		
Module 21: Conditional	21.1	Conditional Probability	
Probability and Overlapping	21.2	Probability of Independent Events	
Events	21.2	Probability of Dependent Events	

UNIT 1: Functions and Equations			
	Lessons		
	1.1	Domain, Range, and End Behavior	
Maril In 1. April 1.	1.2	Characteristics of Functions and Graphs	
Module 1: Analyzing Functions	1.3	Transformations of Functions	
Turicuons	1.4	Transformations of Absolute Value and Quadratic Functions	
	1.5	Compare Functions Across Representations	
	Lessons		
	2.1	Solve Quadratic Equations by Taking Square Roots	
Module 2: Solve Quadratic	2.2	Operations with Complex Numbers	
Equations and Systems	2.3	Prove and Apply the Quadratic Formula	
	2.4	Solve and Graph Nonlinear Systems	
UNIT 2: Polynomial Functions and Equations			
	Lessons		
Module 3: Polynomial	3.1	Graph Polynomial Functions	
Functions	3.2	Analyze Graphs of Polynomial Functions	
	Lessons		
	4.1	Function Operations	
Module 4: Function	4.2	Add and Subtract Polynomials	
Operations and Polynomials	4.3	Multiply Polynomials	
	4.4	Factor Polynomials	
	4.5	Divide Polynomials	
	Lessons		
Module 5: Polynomial	5.1	Solve Polynomial Equations	
Equations	5.2	The Fundamental Theorem of Algebra	
UNIT 3:	UNIT 3: Rational Expressions and Radical Functions		
	Lessons		
Module 6: Rational	6.1	Rational Exponents and <i>n</i> th Roots	
Exponents and Radical Operations	6.2	Properties of Rational Exponents and Radicals	

	Lessons	
	7.1	Inverse Functions and Function Composition
	7.2	Inverses of Quadratic and Cubic Functions
Module 7: Radical Functions and Equations	7.3	Graph Square Root Functions
and Equations	7.4	Graph Cube Root Functions
	7.5	Solve Radical Equations
UNIT 4: Expo	nential a	nd Logarithmic Functions and Equations
	Lessons	
M 11 0 5	8.1	Exponential Growth and Decay Functions
Module 8: Exponential Functions	8.2	The Natural Base e
T directoris	8.3	Compound Interest
	Lessons	
Mandada Ordan arawitah mai a	9.1	Logarithms and Logarithmic Functions
Module 9: Logarithmic Functions	9.2	Graph Logarithmic Functions
T directoris	9.3	Create Exponential and Logarithmic Functions
	Lessons	
Madula 10: Francisco maticulared	10.1	Properties of Logarithms
Module 10: Exponential and Logarithmic Equations	10.2	Solve Exponential Equations
20940 294440	10.3	Solve Logarithmic Equations
UI	IIT 5: Rat	ional Functions and Equations
	Lessons	
Module 11: Rational	11.1	Inverse Variation
Functions	11.2	Graph Simple Rational Functions
	11.3	Graph More Complicated Rational Functions
	Lessons	
Module 12: Rational	12.1	Multiply and Divide Expressions
Expressions and Equations	12.2	Add and Subtract Rational Exponents
Expressions and Equations	12.3	Solve Rational Equations

UNIT 6: Sequences and Series			
	Lessons		
	13.1	Define Sequences and Series	
Module 13: Explicit Formulas for Sequences and Series	13.2	Arithmetic Sequences and Series	
for dequences and defies	13.3	Geometric Sequences and Series	
	Lessons		
Module 14: Recursive	14.1	Recursive Formulas for Arithmetic Sequences	
Formulas for Sequences	14.2	Recursive Formulas for Geometric Sequences	
UNIT	7: Trigor	ometric Functions and Identities	
	Lessons		
Module 15: Unit-Circle	15.1	Angles of Rotation and Radian Measure	
Definition of Trigonometric	15.2	Define and Evaluate the Basic Trigonometric Functions	
Functions	15.3	Use a Pythagorean Identity	
	Lessons		
	16.1	Graph Sine and Cosine Functions	
Module 16: Graph	16.2	Graph Tangent Functions	
Trigonometric Functions	16.3	Translations of Trigonometric Graphs	
	16.4	Create Sine Functions to Model Periodic Phenomena	
		UNIT 8: Probability	
	Lessons		
A4 47 B 199	17.1	Theoretical and Experimental Probability	
Module 17: Probability of Compound Events	17.2	Two-Way Tables and Probability	
Compound Events	17.3	Mutually Exclusive and Inclusive Events	
	Lessons		
M	18.1	Conditional Probability	
Module 18: Probability and Decision Making	18.2	Dependent and Independent Events	
Decision Making	18.3	Analyze Decisions	

UNIT 9: Statistics		
	Lessons	
	19.1	Probability Distributions
Module 19:	19.2	Normal Distributions
Data Distributions	19.3	Data-Gathering Techniques
	19.4	Sampling Distributions
	Lessons	
Module 20: Make Inferences from Data	20.1	Confidence Intervals and Margins of Error
	20.2	Surveys, Experiments, and Observational Studies
nom bata	20.3	Make Inferences from Experimental Data

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