

Algebra II

Module	Lesson Title and Descriptor	TEKS	
1 Foundations for Functions	Domain and Range – Numerical Representations	2A.1A	M1L1
	Domain and Range – Graphs	2A.1A	M1L2
	Domain and Range – Function Notation	2A.1A	M1L3
	Domain and Range – Verbal Description	2A.1A	M1L4
	Domain and Range – Contextual Situations	2A.1A	M1L5
	Identifying Functions to Model Scatterplots	2A.1B	M1L6
	Modeling Data with Linear Functions	2A.1B	M1L7
2 Systems of Equations	Formulating Systems of Equations	2A.3A	M2L1
	Formulating Systems of Inequalities	2A.3A	M2L2
	Solving Systems of Equations Using Tables	2A.3B	M2L3
	Solving Systems of Equations Using Graphs	2A.3B	M2L4
	Solving Systems of Equations Using Substitution	2A.3B	M2L5a
	Solving Systems of Equations Using Elimination	2A.3B	M2L5b
	Solving Systems of Equations with Three Variables	2A.3B	M2L6
	Using Systems of Equations to Solve Problems	2A.3C	M2L7
	Solving Systems of Equations Using Matrices	2A.3B	M2L8
	Solving Systems of Inequalities	2A.3B	M2L9

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3 Algebra and Geometry	Identifying Parent Functions	2A.4A	M3L1
	Transformations of Quadratic Functions	2A.4B 2A.7B	M3L2
	Transformations of $y = a(x - h)^2 + k$ in Applied Situations	2A.7B	M3L2b
	Transformations of Square Root Functions	2A.9A	M3L3
	Transformations of Exponential Functions	2A.4B	M3L4
	Transformations of Logarithmic Functions	2A.4B	M3L5
	Exponential and Logarithmic Functions: Predicting the Effects of Parameter Changes	2A.11B	M3L5b
	Transformations of Absolute Value Functions	2A.4B	M3L6
	Transformations of Rational Functions	2A.4B	M3L7
	Functions and Their Inverses	2A.4C	M3L8
	Introducing Conic Sections	2A.5A	M3L9
	Graphing Conic Sections - Parabola	2A.5B	M3L10
	Graphing Conic Sections - Circles	2A.5B	M3L11
	Graphing Conic Sections - Ellipses	2A.5B	M3L12
	Graphing Conic Sections - Hyperbolas	2A.5B	M3L13
Symmetries in Graphs of Conic Sections	2A.5C	M3L14	
Identifying a Conic Section from the Equation	2A.5D	M3L15	

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4 Quadratic Functions	Multiple Representations of Quadratic Functions (verbal to others)	2A.6B	M4L1
	Multiple Representations of Quadratic Functions (tabular to others)	2A.6B	M4L2
	Multiple Representations of Quadratic Functions (graphical to others)	2A.6B	M4L3a
	Multiple Representations of Quadratic Functions (graphical to others)	2A.6B	M4L3b
	Multiple Representations of Quadratic Functions (algebraic to others)	2A.6B	M4L4
	Interpreting Contextual Solutions to Quadratic Equations	2A.6A	M4L5
	Determining a Quadratic Function from its Roots	2A.6A	M4L6
	Analyzing Attributes of Graphs of Quadratic Functions	2A.7A	M4L7
	Analyzing Attributes of Quadratics Given Equations	2A.7A	M4L8
	Connecting Standard Form to Vertex Form	2A.7A 2A.5E	M4L9
	Connecting Vertex Form to Standard Form	2A.7A	M4L10
	Modeling Situations Using Quadratic Functions	2A.8A	M4L11

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5 Quadratic Equations	Solving Quadratic Equations Using Tables	2A.8D	M5L1
	Solving Quadratic Equations Using Graphs	2A.8D	M5L2
	Solving Quadratic Equations Using Inverse Operations	2A.8D	M5L3
	Solving Quadratic Equations Using Factoring	2A.8D 2A.2A	M5L4
	Solving Quadratic Equations Using the Quadratic Formula	2A.8D 2A.8E	M5L5
	Solving Quadratic Equations	2A.8D 2A.8B 2A.8C	M5L6
	Using Complex Numbers to Solve Quadratic Equations	2A.2B	M5L7
	Determining the Nature of Quadratic Solutions	2A.8B	M5L8
	Solving Quadratic Inequalities	2A.8A 2A.6A	M5L9
	Solving Quadratic Inequalities using Algebraic Methods	2A.8D	M5L10

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6 Square Root Functions	Connecting Quadratic and Square Root Functions	2A.9G 2A.9A	M6L1
	Representations of Square Root Functions	2A.9B	M6L2
	Solving Square Root Equations Using Tables and Graphs	2A.9B	M6L2a
	Solving Square Root Equations Using a Graphing Calculator	2A.9D 2A.9B	M6L3
	Solving Square Root Equations Using Algebraic Methods	2A.9D 2A.9C	M6L4
	Solving Square Root Inequalities Using Tables and Graphs	2A.9E 2A.9C	M6L5
	Formulating Square Root Equations	2A.9F	M6L6
	Solving Contextual Square Root Equations	2A.9F	M6L7
	Analyzing Situations Using Square Root Functions	2A.9F	M6L8

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7 Rational Functions	Rational Functions: Predicting the Effects of Parameter Changes	2A.10A	M7L0
	Analyzing Rational Functions	2A.10B 2A.10A	M7L1
	Solving Rational Equations Using Tables and Graphs	2A.10D 2A.10C	M7L2
	Solving Rational Equations Using Algebraic Methods	2A.10D 2A.10C	M7L3
	Solving Rational Inequalities Using Tables and Graphs	2A.10E	M7L4
	Formulating Rational Equations	2A.10F	M7L5
	Solving Contextual Rational Equations	2A.10F	M7L6
	Analyzing Situations Using Rational Functions	2A.10F	M7L7
	Modeling With Direct and Inverse Variation	2A.10G	M7L8

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8 Exponential and Logarithmic Functions	Determining Inverses of Exponential Functions	2A.11A	M8L1
	Determining Ranges of Logarithmic Functions	2A.11A	M8L2
	Describing the Domain, Range, and Asymptotic Behavior of Exponential Functions	2A.11B	M8L3
	Describing the Domain, Range, and Asymptotic Behavior of Logarithmic Functions	2A.11B	M8L4
	Solving Exponential Equations Using Tables and Graphs	2A.11D 2A.11C	M8L5
	Solving Exponential Equations Using Algebraic Methods	2A.11D 2A.11C	M8L6
	Solving Logarithmic Equations Using Tables and Graphs	2A.11D 2A.11C	M8L7
	Solving Logarithmic Equations Using Algebraic Methods	2A.11D 2A.11C 2A.2A	M8L8
	Solving Exponential Inequalities Using Tables and Graphs	2A.11E	M8L9
	Solving Logarithmic Inequalities Using Tables and Graphs	2A.11E	M8L10
	Formulating Exponential Equations	2A.11F	M8L11
	Solving Contextual Exponential Equations	2A.11F	M8L12
	Analyzing Situations Using Exponential Equations	2A.11F	M8L13
	Exponential and Logarithmic Inequalities: Reasonable Solutions	2A.11C	M8L14