

3..Algebra 2

GREEN = must do

YELLOW = could do

RED = don't do

Chapter 1: Expressions, Equations, and Inequalities

Total Time : 1-2 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
	1	1-1 Patterns and Expressions		
	1	1-2 Properties of Real Numbers		
	1	1-3 Algebraic Expressions		
	1	1-4 Solving Equations		
	1	1-5 Solving Inequalities		
	1	1-6 Absolute Value Equations and Inequalities		

Chapter 2: Functions, Equations, and Graphs

Total Time : 2-3 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
	1	2-1 Relations and Functions		
	1	2-2 Direct Variation		
	1	2-3 Linear Functions and Slope-Intercept Form		
	1	2-4 More About Linear Equations		
	1	2-5 Using Linear Models		
	3	2-6 Families of Functions		

		2-7 Absolute Value Functions and Graphs		
		2-8 Two-Variable Inequalities		

Chapter 3: Linear Systems

Total Time : 1-2 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
	1	3-1 Solving Systems Using Tables and Graphs		
	2	3-2 Solving Systems Algebraically		
	1	3-3 Systems of Inequalities		
	1	3-4 Linear Programming		
	1	3-5 Systems with Three Variables		
	1	3-6 Solving Systems Using Matrices		

Chapter 4: Quadratic Functions and Equations

Total Time : 3-4 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
	1	4-1 Quadratic Functions and Transformations		
	1	4-2 Standard Form of a Quadratic Function		
	1	4-3 Modeling with Quadratic Functions		

	1	4-4 Factoring Quadratic Expressions		
	1	4-5 Quadratic Equations		
	1	4-6 Completing the Square		
	1	4-7 The Quadratic Formula		
		4-8 Complex Numbers		
		4-9 Quadratic Systems		

Chapter 5: Polynomials and Polynomial Functions

Total Time : 2-3 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.)
	1	5-1 Polynomial Functions		
	1	5-2 Polynomials, Linear Factors, and Zeros		
	1	5-3 Solving Polynomial Equations		
	1	5-4 Dividing Polynomials		
		5-5 Theorems About Roots of Polynomial Equations		
	1	5-6 The Fundamental Theorem of Algebra		
		5-7 The Binomial Theorem		
		5-8 Polynomial Models in the Real		

		World		
		5-9 Transforming Polynomial Functions		

Chapter 6: Radical Functions and Rational Exponents

Total Time : 3 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
	1	6-1 Roots and Radical Expressions		
	1	6-2 Multiplying and Dividing Radical Expressions		
		6-3 Binomial Radical Expressions		
	1	6-4 Rational Exponents		
		6-5 Solving Square Root and Other Radical Equations		
	1	6-6 Function Operations		
		6-7 Inverse Relations and Functions		
		6-8 Graphing Radical Functions		

Chapter 7: Exponential and Logarithmic Functions

Total Time : 2-3 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
	1	7-1 Exploring Exponential Models		
	2	7-2 Properties of Exponential Functions		

	2	7-3 Logarithmic Functions as Inverses		
	2	7-4 Properties of Logarithms		
	1	7-5 Exponential and Logarithmic Equations		
		7-6 Natural Logarithms		

Chapter 8: Rational Functions

Total Time : 2-3 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.)
	1	8-1 Inverse Variation		
	2	8-2 The Reciprocal Function Family		
	4	8-3 Rational Functions and Their Graphs		
	1	8-4 Rational Exprssions		
		8-5 Adding and Subtracting Rational Expressions		
		8-6 Solving Rational Equations		

Chapter 9: Sequences and Series

Total Time :

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.)
	1	9-1 Mathematical Patterns		
	1	9-2 Arithmetic Sequences		

	1	9-3 Geometric Sequences		
	1	9-4 Arithmetic Series		
	1	9-5 Geometric Series		

Chapter 10: Quadratic Relations and Conic Sections

Total Time :

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
	1	10-1 Exploring Conic Sections		
	1	10-2 Parabolas		
	1	10-3 Circles		
	1	10-4 Ellipses		
	1	10-5 Hyperbolas		
	1	10-6 Translating Conic Sections		

Chapter 11: Probability and Statistics

Total Time : 2-3 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
	1	11-1 Permutations and Combinations		
	1	11-2 Probability		
	1	11-3 Probability of Multiple Events		
	1	11-4 Conditional Probability		
	1	11-5 Probability Models		

	1	11-Analyzing Data		
	1	11-7 Standard Deviation		
		11-8 Samples and Surveys		
		11-9 Binomial Distributions		
		11-10 Normal Distributions		

Chapter 12: Matrices

Total Time :

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.)
		12-1 Adding and Subtracting Matrices		
		12-2 Matrix Multiplication		
		12-3 Determinants and Inverses		
		12-4 Inverse Matrices and Systems		
		12-5 Geometric Transformations		
		12-6 Vectors		

Chapter 13: Periodic Functions and Trigonometry

Total Time : 3 weeks

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.)
		13-1 Exploring Periodic Data		
		13-2 Angles and the Unit Circle		

		13-3 Radian Measure		
		13-4 The Sine Function		
		13-5 The Cosine Function		
	1	13-6 The Tangent Function		
		13-7 Translating Sine and Cosine Functions		
		13-8 Reciprocal Trigonometric Functions		

Chapter 13: Periodic Functions and Trigonometry

Total Time : 1 week

Math Standard	# of days	Topic	Assignment	Notes (resources, suggestions, etc.
		14-1 Trigonometric Identities		
		14-2 Solving Trigonometric Equations Using Inverses		
		14-3 Right Triangles and Trigonometric Ratios		
		14-4 Area and the Law of Sines		
		14-5 The Law of Cosines		
	1	14-6 Angle Identities		
		14-7 Double-Angle and Half-Angle Identities		

