

Algebra 2 YAG 2020-2021

1st Nine Weeks		2nd Nine Weeks		3rd Nine Weeks		4th Nine Weeks	
Alg 1 review	15 days	Polynomials	11 days	More Quadratics	15 days	Logrithmic functions	15 days
solve 1 variable multi-step equation		Add and Subtract		Quadratic formula		inverse logs and exponentials	
solve with fractions		exponent rules		Graph with a, h, and k		Graph and transform exponential and logrithmic functions	
graph lines		Multiply 1x2, 1x3, 2x2, 2x3, 3x3		write quadratic equ from graph		Rewrite exponential equations as log equations and the reverse.	
a,h,k in lines		Long Division		add, subtract and multiply complex numbers		Solve logs and exponentials	
linear inequalities and set notation		Synthetic division		simplify i		Natural logs	
Absollute Value	12 days	Factor	14 days	Algebra review	12 days	Rational functions	21 days
Solve Absolute Value Equations		Factor GCF		composite functions		review factoring	
Solve Absolute Value Inequalities		Factor by grouping		inverse functions		simplify rational expressions	
graph absolute value with a, h, k		Factor when $a = 1$ and $a \neq 1$		rational expontnts		multiply rational expresstion	
Write absolute value from graph		Difference of 2 squares				divide rational expresstion	
		perfect squres		Radical Functions		add and subtract rational exp	
Systems of equations and inequalities	16 days	Mixed Factoring	9 days	complex numbers	12 days		12 days
Graph Linear Systems				Graph radical functions a, h, k		Graph more functions	
Graph linear inequalities		Solve quadratics		Graph cubic and cube root functions		Graph, transform and solve rational functions	
Applications systems		vocabulary		Solve equations with radical including extraneous solutions		solve rational equations	
Write equations		solve by factoring				inverse variation	
solve/state if reasonable		simplify radicals		Inverses	10 days	horizontal and vertical	
Substitution				inverses for power and root			
Elimination				inverse square and cube roots			
No Solutions Infinite Solutions				exponential properties			
3 x 3 system							
linear and quadratic							
9 weeks test	2 days	Semester Review and exam	5 days	9 weeks test	2 days	Semester Review and exam	5 days

Algebra 2 PAP YAG 2020-2021

1st Nine Weeks		2nd Nine Weeks		Third Nine Weeks		Fourth Nine Weeks	
syllabus and technology sign-on	12 days	Solve Quadratics and Linear Systems - Algebraically	12 days	Inverse Functions	11 days	Expand Logs	7 days
Graph Linear Inequalities				Horizontal line test		Condense Logs	
Graph System of Linear Inequalities		Solve Quadratics and Linear Systems - Technology		Inverse of Linear, Quadratics, and Square Roots		Condense Logs to Solve	
Area/Perimeter on Coordinate plane - Activity - Quiz Grade		Simplify Radicals with and without "I"				Mixed Solving Logs	
2 X 2 Linear Systems Solved with Substitution Method		Find the discriminant and name number and type of solutions		Graph Square Roots in A, H, and K Form		Graphing Rational Functions	
2 X 2 Linear Systems Solved with Elimination Method		Solve using the Quadratic Formula with real and imaginary solutions		Solve Square Root Equations		Desmos Project	
Quiz over 2 x 2 Linear Systems				Test 3.1		Test 4.1	
Review on ALEKS for test 1.1	15 days	Quadratics with Square Root Property	10 days	Solve nth Root Radical	11 days	Graphing Rationals with Quadratic Denominator	15 days
Test 1.1		Factoring Perfect Squares		Radical Application Stations		Horizontal Asymptote rules	
Assign new ALEKS for unit		Test 2.1		Simplify square and cube roots with variables		Factoring Review	
3 x 3 Linear Systems Solved by Elimination Method		Factoring Perfect Square Trinomials		Graph and Write Cubic and Cube Roots in A, H, and K Form		Simplifying Rationals	
2 x 2 Gaussian Method for Systems		Solve by Completing the Square		Exponent Rules		Multiplying/Dividing Rationals	
2 x 2 and 3 x 3 with technology		Mixed Factoring Review		Rational Exponents		Test 4.2	
2 x 2 and 3 x 3 with technology		Introduce A, H, and K		Test 3.2		Add/Subtract Rationals	
Add and Subtract Polynomials using function notation.	15 days	Graphing Quadratics from Vertex Form	10 days	Graphing Absolute Value	12 days	Simplifying Complex Fractions	14 days
Multiply Polynomials		Change from Standard to Vertex Form of a Quadratic		Exponent Project Book Due		Solve Rationals with LCD	
Long Division of Polynomials		Test 2.2		Solving Absolute Value Equations		Cost Average/Percentage Word Problems	
Synthetic Division of Polynomials		Power of Imaginary Numbers		Solve Absolute Value Inequalities		Work Problems	
Composite Functions		Operations with Imaginary Numbers		Absolute Value Applications		Direct variation/Inverse Variation	
Matrices Project		Applications of Quadratic Functions - Launched/Dropped	18 days	Graph Piecewise		Joint/Combined Variation	
Test 1.2		Applications of Quadratic Functions Project - Launched/Dropped		Write Piecewise		Application Stations	
Factor by GCF	10 days + 2 days			Laying the Foundation Piecewise puzzle	13 days	Vertical Parabola Conic Sections	8 days + 5 flex days
Factor by Grouping		Quadratic Inequalities with technology		Evaluate Piecewise Functions		Test 4.3	
Factoring Trinomials		Quadratic Inequalities with Solutions in Interval Notations		Test 3.3		Horizontal Parabola Conic Sections	
Difference of Squares		Quadratic Regression - one by hand and two with technology		Graphing Exponential Functions		Parabola Conic Sections Applications	
Factoring Sum and Difference of Cubes		Test 2.3		Solving Exponential with Common and Non-Common Base		Regression - Select the appropriate model	
Test 1.3				Rewrite logs to exponential and back		Review all functions and how the "b" value effects graphs	
				Evaluate logs and Exponentials		U-Substitution	
Intro to Quadratic Functions - what does a solution represent		Semester Review and Exam		Inverse of logs and exponentials		Flex Days and Review for Final	
				Graphing Application Problems - Growth, Decay, Compound Interest.		Final	

Pre-College Algebra YAG 2020-2021							
1st Nine Weeks		2nd Nine Weeks		3rd Nine Weeks		4th Nine Weeks	
310 Review and Unit 1	10 days	310 Midterm	3 days	320 Unit 2 Test	11 days	320 Midterm	5 days
Welcome, Syllabus, Procedures, MML Setup		Review Units 1-4 - 3 days		2.3 Absolute Value Equations		Review 320 Units 2-5 - 3 days	
0.1 Simplifying Fractions		Midterm Exams - 2 days		2.6 Linear Inequalities		Midterm Exams - 2 days	
0.2 Adding and Subtracting Fractions				2.7 Compound Inequalities			
0.3 Multiplying and Dividing Fractions				2.8 Absolute Value Inequalities			
1.1, 1.2, 1.3 Add-Subtract-Multiply-divide Real Numbers				320 Unit 2 Test			
310 Unit 2 and 3	10 days	310 Unit 7	9 days	320 Unit 3'	10 days	320 Unit 6	14 days
2.1,2.2 Addition and Multiplication Principles		7.1 The Rectangular Coordinate System		3.1 Graphing Linear Equations with 2 unknown variables		6.1 Rational Expressions Multiplying and Dividing	
2.3 Using Principles Together		7.2 Graphing Linear Equations		3.2 Slope of a Line		5.2/5.3 Dividing Polynomials/Synthetic Division	
2.4 Solving Equations with Fractions		7.3 The Slope of a Line		3.3 Graphs and the Equations of a Line		6.2 Adding and Subtracting Rational Expressions	
3.1 Translating English expressions into Algebraic Equations		7.4 Writing the Equation of a Line		3.4 Linear Inequalities in 2 variables		6.3 Complex Rational Expressions	
3.2 Using Equations to Solve Word Problems		310 Unit 7 Test		320 Unit 3 Test		6.4 Solving Rational Equations	
3.3 Solving Word Problems: Comparisons						320 Unit 6 Test	
310 Unit 4	8 days	310 Unit 8	10 days	320 Unit 4	11 days	320 Unit 7	10 days
4.1 The Rules of Exponents		8.1 Solving Systems by Graphing		3.6 Graphing Functions from Equations and Tables of Data		7.5 Radical Equations	
4.2 Negative Exponents and Scientific Notation		8.2 Solving Systems by Substitution		4.1 Systems of Linear Equations in 2 Variables		7.6 Complex Numbers	
4.3 Fundamental Polynomial Operations		8.3 Solving Systems by Addition Method		4.2 Systems of Linear Equations in 3 Variables		320 Unit 7 Test	
4.4 Multiplying Polynomials		8.4 Review Methods for Systems		4.3 Applications of Linear Equations			
310 Unit 4 Test		8.5 Solving Word Problems		320 Unit 4 Test			
		310 Unit 8 Test					
310 Unit 5	10 days	310 Unit 9	12 days	320 Unit 5	15 days	320 Unit 8	14 days
5.1 Removing Common Factors		9.1 Square Roots		5.4 Removing Common Factors (Factor by Grouping)		8.1 Solving Quadratics	
5.2 Factor by Grouping		9.2 Simplifying Radical Expressions		5.5 Factoring Trinomials		8.2 Quadratic Formula	
5.4 Factor Trinomials		9.3 Adding and Subtracting Radical Expressions		5.6 Factoring Special Cases		8.4 Formulas and Applications	
5.3 Factor Trinomials; $a=1$		9.4 Multiplying Radical Expressions		5.7 Factoring a Polynomial Completely		8.5 Quadratic Functions	
5.7 Solving Quadratic Equations		9.5 Dividing Radical Expressions		5.8 Solving Equations and Applications using Polynomials		320 Unit 8 Test	
5.6 Review of Factoring		9.6 The Pythagorean Theorem - and Radicals		320 Unit 5 Test			
310 Unit 5 Test		310 Unit 9 Test					
		Semester Review	1 day			Semester Review	4 days
		Semester Exam				Semester Exam	