

Algebra 2 Syllabus 2024 - 2025
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Requested Supply List

- ❖ 2 in Binder (Guided Notes)
- ❖ PENCILS (Math is not ink friendly!)

Classroom Rules

- ❖ NO CHEATING! You run the risk of not receiving course credit.
- ❖ Listen and Read often, & be prepared for class.
- ❖ NO CELL PHONES! Cell phones must be turned off and placed in the calculator pockets or backpack each day.
- ❖ The student must relinquish their cell phone before going to the restroom.
- ❖ NO FOOD!!! WATER ONLY & MUST HAVE LIDS THAT WILL CLOSE!!!

Grading

- ❖ 65% Notes, Classwork, Review Packets, Homework, Activities, Projects, Blooket etc.
 - **All Delta & Savvas assignments can/should be completed 100%.**
- ❖ 20% Mini Quizzes
- ❖ Mini Quizzes; timed and occur 2 times a week after the first unit is complete
- ❖ MasteryConnect Mini Quizzes
 - 5 - 10 questions
 - 1 - 5 Specific Standards Assessed
 - Scored on a curve similar to the EOC
- ❖ 15% Term Exams via MasteryConnect
- ❖ EOC Assessment will be 15% of FIN score
- ❖ **Percentages are subject to change!!!!**

Digital Platforms

- ❖ Skyward – Grades/Attendance
- ❖ Google Classroom – Communication & Assignments
- ❖ enVision Savvas Realize - Textbook; Assignments
- ❖ DeltaMath – Assignments
- ❖ MasteryConnect - Mini Quizzes; Benchmark Testing
- ❖ Kahoot!; Blooket – Study Terms/Formulas/Games/Formative Assessments
- ❖ Zoom – Communication & Presentation

Algebra 2 Pacing Guide

Lesson #	Standard(s)	Title	Tentative # day(s)	Tentative Dates
		Unit 10 - Matrices	3	
10.1	N.M.A.1 N.M.A.2a N.M.A.2b	10.1 - Operations with Matrices <ul style="list-style-type: none"> - Order of a Matrix - Identify Matrix Elements - Adding/Subtracting - Simple Equations 	1	8/7 (1/7)
10.2	N.M.A.2c N.M.A.2d	10.2 - Matrix Multiplication	1	8/8 (1/8)
		Review Packet #1	1	8/9 (1/9)
		Unit 1 - Linear Functions & Systems	6	
1.1	F.IF.A.1 F.IF.A.2 F.IF.B.4	1.1 - Key Features of Functions <ul style="list-style-type: none"> - Average Rate of Change from Equation or Table - Compare Features from Table vs. Equation (Intercepts) 	1	8/12 (1/10)
1.2	F.BF.B.3	1.2 - Transformations of Functions <ul style="list-style-type: none"> - Reflections/Translations - Quadratic, Cubic, Absolute Value, Square Root, Exponential 	1	8/13 (1/13)
1.3	F.IF.B.4	1.3 - Piecewise-Defined Functions (Kuta Software)	1	8/14 (1/14)
1.4	F.BF.A.1 F.BF.A.2	1.4 - Arithmetic Sequences	1	8/15 (1/15)
1.6 1.7 10.5	A.REI.B.3 N.M.A.2d N.M.A.3	1.6 - Linear Systems 1.7 - Solving Linear Systems Using Matrices 10.5 - Inverse Matrices & Systems of Equations <ul style="list-style-type: none"> - Word Problems - Set up Matrix (Kuta Software) - Solve System w/ matrices 	1	8/16 (1/16)
		Review Packet #2	1	8/19 (1/17)
		Unit 2 - Quadratic Functions & Equations	4	
2.1, 2.2, 2.3 Pt 1 & Pt 2	F.BF.B.3 A.CED.A.2	2.1 - Vertex Form of a Quadratic Function	2	8/20 - 8/21 (1/21 - 1/22)

	F.IF.A.1 S.ID.B.4 A.APR.A.2 F.IF.B.5a	2.2 - Standard Form of a Quadratic Function 2.3 - Factored Form of a Quadratic Function <ul style="list-style-type: none"> - Select Form for Quadratic Feature - Parabola Features (From Graph) - Parabola Intercepts from Coefficients - Determine Intercepts from Factored Form 		
2.7	A.REI.B.4	2.7 - Linear-Quadratic Systems Identifying Quad/Linear Solutions	1	8/22 (1/23)
		Review Packet #3	1	8/23 (1/24)
		Unit 3 - Polynomial Functions	5	
3.1	F.IF.A.1 F.IF.B.4	3.1 - Graphing Polynomial Functions <ul style="list-style-type: none"> - End Behavior (Kuta) - Find Roots from Graph - Select Equations from Graph Roots 	1	8/26 (1/27)
3.5	A.APR.A.2 F.IF.B.4	3.5 - Zeros of Polynomial Functions <ul style="list-style-type: none"> - Determine Intercepts from Factored form - Interpret Quadratic Graphs 	1	8/27 (1/28)
3.6	A.APR.A.1 A.APR.A.2	3.6 - Theorems about Roots of Polynomial Equations <ul style="list-style-type: none"> - Remainder Theorem - Factor Theorem 	1	8/28 (1/29)
3.8 (TN-1)	F.IF.A.3	3.8 (TN-1) - Understanding Geometric Formulas as Functions Volume Formulas Transform Formulas	1	8/29 (1/30)
		Review Packet #4	1	8/30 (1/31)
		Unit 5 - Rational Exponents & Radical Functions	8	
5.1	N.RN.A.1a N.RN.A.1b N.RN.A.1c	5.1 - nth Roots, Radicals, and Rational Exponents <ul style="list-style-type: none"> - Simplify Algebraic Square Roots - Simplify Algebraic Cube Roots 	1	9/3 (2/3)

5.2	N.RN.A.1c	5.2 - Properties of Exponents and Radicals - Rational Exponents & Radical Form	1	9/4 (2/4)
5.3	F.IF.A.1 F.IF.B.4 F.BF.B.3	5.3 - Graphing Radical Functions - Transformations - Kuta Select Graphs	1	9/5 (2/5)
5.4	A.REI.A.1 A.REI.A.2 A.CED.A.3	5.4 - Solving Radical Equations	1	9/6 (2/6)
5.5	F.BF.A.1a F.BF.A.1b	5.5 - Functions Operations	1	9/9 (2/7)
5.6	F.BF.B.4a F.BF.B.4b F.BF.B.4c	5.6 - Inverse Relations and Functions	1	9/10 (2/10)
		Review Packet #5	2	9/11 - 9/12 (2/11 - 2/12)
		Unit 6 - Exponential & Logarithmic Functions	6	
6.1	F.IF.A.2 F.IF.B.4 F.IF.B.6a F.BF.B.3	6.1 - Key Features of Exponential Functions - Growth/Decay - Graphs (Kuta) - Transformations - Table to Exponential Function	1	9/13 (2/13)
6.2	A.SSE.A.1a A.SSE.A.1b F.IF.B.5 F.IF.B.5b S.ID.B.4 N.Q.A.1d	6.2 - Exponential Models Linear & Exponential - Linear/Exponential Differences - Linear vs Exponential Contexts (MC) - Match Exponential Equation and Context	1	9/16 (2/14)
6.5	F.LE.A.1b	6.5 - Properties of Logarithms - Logarithmic Form	1	9/17 (2/18)
6.6	A.CED.A.1 A.REI.A.1 F.LE.A.1a N.Q.A.1d	6.6 - Exponential & Logarithmic Equations	1	9/18 (2/19)
6.7	F.BF.A.1 F.BF.A.2	6.7 - Geometric Sequences	1	9/19 (2/20)
		Review Packet #6	1	9/20

				(2/21)
		Unit 11 - Data Analysis & Statistics	4	
11.2	N.Q.A.1c S.IC.A.1 S.IC.A.2	11.2 - Statistical Studies & Sampling Methods (MasteryConnect; SAVVAS) - Survey, Experiment, Observational Study - Biased vs Unbiased	1	9/23 (2/24)
11.3	S.ID.A.1 S.ID.A.2 S.ID.A.3 N.Q.A.1a	11.3 - Data Distributions - Find & Compare Measures of Central Tendency & Spread - Mean, Median, Quartiles, SD, Range, IQR - Discuss Desmos Options	1	9/24 (2/25)
11.4	S.ID.A.1 S.ID.A.2 S.ID.A.3 N.Q.A.1a	11.4 - Normal Distributions - Find Area under a Curve for specified intervals w/ Desmos - Find intervals given percent under curve - Calculate Z-Score	1	9/25 (2/26)
		Review Packet #7	1	9/26 (2/27)
		Unit 12 - Probability	4	
12.1	S.CP.A.1	12.1 - Probability Events - Independent vs Dependent (Kuta Software) - Simple & Compound (Or/And; Marbles) Probability	1	9/27 (2/28)
12.2	S.CP.A.1 S.CP.C.4	12.2 - Conditional Probability	1	9/30 (3/3)
12.3	S.CP.B.2a S.CP.B.2b	12.3 - Permutations & Combinations	1	10/1 (3/4)
		Review Packet #8 (Term Test Review)	1	10/2 (3/5)
		Term Test	1	10/3 (3/13)
		MasteryConnect Benchmark	1	10/14 (3/6)
		EOC Review	~18	
		All Things Quadratic	4	10/15 - 10/18 (3/24 - 3/27)
		All Things Exponential	5	10/21 - 10/25

				(3/28 - 4/3)
		Matrices & Average Rate of Change	2	10/28 - 10/29 (4/4 - 4/7)
		Radicals	3	10/30 - 11/1 (4/8 - 4/10)
		Polynomial Functions	4	11/4 - 11/8 (4/11 - 4/16)
		EOC		11/25 - 12/13 (4/14 - 5/2)
		ACT Review 1 - Equations		?
		ACT Review 2 - Evaluate Functions		?
		ACT Review 3 - Simple Exponents		?
		ACT Review 4 - Complex Exponents		?
		ACT Review 5 - Complex Numbers		?
		ACT Review 6 - Circles		?