Algebra 2 Syllabus 2025 - 2026
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Requested Supply List
- 1 - 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!!!**
- **NO PERSONAL DEVICES**, students **MUST** use a school issued device.

Grading
- 55% Notes, Classwork, Review Packets, Homework, Activities, Projects (counts as 2 grades), Blooket etc.
  - **All Delta & Savvas assignments can/should be completed 100%. Both allow for multiple attempts or similar questions.**
  - **1st Term - Assignments will close after 2 weeks.**
  - **2nd Term - Assignments will close after 1 week.**
- 30% Mini Quizzes; Projects (counts as 2 grades)
- 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 (posted in Google Classroom)
- 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; Enrichment
- DeltaMath – Assignments
- MasteryConnect - Mini Quizzes; Benchmark Testing
- Kahoot!; Blooket – Study Terms/Formulas/Games/Formative Assessments
- Google Meets – 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 - Order of a Matrix - Identify Matrix Elements - Create a Matrix from a Table (MC) - Adding/Subtracting - Simple Equations - Additive Identity	1	8/5 (1/6)
10.2	N.M.A.2c N.M.A.2d	10.2 - Matrix Multiplication (Rules & Perform Operations); Multiplicative Identity; Addition & Scalar Multiplication of Matrices	1	8/6 (1/7)
		Review Packet #1	1	8/7 (1/8)
		Unit 1 - Linear Functions & Systems	**8**	
1.1 Pt 1 & Pt 2	F.IF.A.1 F.IF.A.2 F.IF.B.6a F.IF.B.6b	1.1 - Key Features of Functions - Average Rate of Change from Equation, Graph, or Table - Average Rate of Change Function Comparison - Average Rate of Change Interval Comparison - Compare Features from Table vs. Equation (Intercepts) - Increasing vs Positive Graphically	2	8/8-8/11 (1/9-1/12)
1.2 Pt 1 & Pt 2	F.IF.B.4 F.BF.B.3	1.2 - Transformations of Functions - Reflections/Translations - Quadratic, Cubic, Absolute Value, Square Root, Exponential - Graph Functions from Parent (Quadratic, Square Root) - Make Table, Plot, Graph, find D/R (Quadratic, Square Root, Cubic, Cube Root)	2	8/12-8/13 (1/13-1/14)

1.3	F.IF.B.4	1.3 - Piecewise-Defined Functions (Kuta Software; MC) Increasing vs Decreasing Linear Piecewise	1	8/14 (1/15)
1.4	F.BF.A.2	1.4 - Arithmetic Sequences - Write Explicit Formula - **Arithmetic** & Geometric Sequences (Context)	1	8/15 (1/16)
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 - Word Problems (MC) - Set up Matrix (Kuta Software) - Solve System w/ matrices	1	8/18 (1/20)
		Review Packet #2	1	8/19 (1/21)
		Unit 2 - Quadratic Functions & Equations	**3**	
2.1, 2.2, 2.3	A.CED.A.2 F.IF.A.1 S.ID.B.4 A.APR.A.2 F.IF.B.5a	2.1 - Vertex Form of a Quadratic Function 2.2 - Standard Form of a Quadratic Function 2.3 - Factored Form of a Quadratic Function - Select Form for Quadratic Feature - Parabola Features (From Graph) - Parabolas: Intercepts from Coefficients - Parabolas: Vertex Form Coefficients	1	8/20 (1/22)
2.7	A.REI.B.4	2.7 - Linear-Quadratic Systems Identifying Quad/Linear Solutions; Basic Function Equality (Graphs)	1	8/21 (1/23)
		Review Packet #3	1	8/22 (1/26)

		Unit 3 - Polynomial Functions	**5**	
3.1	A.APR.A.2 F.IF.A.1 F.IF.B.4	3.1 - Graphing Polynomial Functions - End Behavior (Kuta) - Find Roots from Graph - Select Equations from Graph Roots	1	8/25 (1/27)
3.5	A.SSE.A.1b A.APR.A.2 F.IF.B.4 F.IF.B.5a	3.5 - Zeros of Polynomial Functions - Determine Intercepts from Factored form - Interpret Quadratic Graphs - Interpret Quadratics in Context (Graphing Tech)	1	8/26 (1/28)
3.6	A.APR.A.1 A.APR.A.2	3.6 - Theorems about Roots of Polynomial Equations - Remainder Theorem - Factor Theorem - Remainder/Factor Theorem (Level 2)	1	8/27 (1/29)
3.8 (TN-1)	A.CED.A.3 F.IF.A.3	3.8 (TN-1) - Understanding Geometric Formulas as Functions Volume Formulas Transform Formulas (Cone & Cylinder)	1	8/28 (1/30)
		Review Packet #4	1	8/29 (2/2)
		Unit 5 - Rational Exponents & Radical Functions	**7**	
5.1	N.RN.A.1a N.RN.A.1b N.RN.A.1c	5.1 - nth Roots, Radicals, and Rational Exponents - Simplifying Radicals (Nth Root) (Square, Cube, & 4th Root; No Negatives)	1	9/2 (2/3)
5.2	N.RN.A.1c	5.2 - Properties of Exponents and Radicals - Rational Exponents & Radical Form - Negative & Fractional Exponents (MC; No Negative Exponents)	1	9/3 (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	9/4 (2/5)

5.4	A.REI.A.1 A.REI.A.2	5.4 - Solving Radical Equations	1	9/5 (2/6)
5.5	F.BF.A.1a F.BF.A.1b	5.5 - Functions Operations - Arithmetic Operations on Functions (Add/Subtract) - Composition of Functions (Numeric)	1	9/8 (2/9)
5.6	A.CED.A.3 F.BF.B.4a F.BF.B.4b F.BF.B.4c	5.6 - Inverse Relations and Functions - Function Definitions - Function Definitions (MC) - One-to-One Functions by Equation - Invert Linear Functions - Revisit Geometric Formulas as Functions (Cone & Cylinder)	1	9/9 (2/10)
		Review Packet #5	1	9/10 (2/11)
		Unit 6 - Exponential & Logarithmic Functions	**7**	
6.1	N.Q.A.1c A.SSE.A.1b A.CED.A.2 F.IF.A.2 F.IF.B.4 F.IF.B.5b F.BF.A.2 F.BF.B.3	6.1 - Key Features of Exponential Functions - Growth/Decay - Table to Exponential Function - Features of **Exponential** & Log Functions	1	9/11 (2/12)
6.2 Pt 1 & Pt 2	A.SSE.A.1b F.IF.B.5 F.IF.B.5b F.LE.A.2 S.ID.B.4 N.Q.A.1d	6.2 - Exponential Models Linear & Exponential - Linear/Quadratic/ Exponential Differences - Linear vs Exponential Contexts (MC) - Match Exponential Equation and Context - Linear Regression - Exponential Regression	2	9/12-9/15 (2/13-2/17)
6.5	F.LE.A.1b	6.5 - Properties of Logarithms - Logarithmic Form	1/2	9/16 (2/18)
6.6	F.LE.A.1a F.LE.A.1b F.LE.A.1c	6.6 - Exponential & Logarithmic Equations	1/2	9/16 (2/19)

6.7	F.BF.A.2	6.7 - Geometric Sequences - Write Explicit Formula - Arithmetic & **Geometric** Sequences (Context)	1	9/17 (2/20)
		Review Packet #6	2	9/18-9/19 (2/23-2/24)
		Unit 11 - Data Analysis & Statistics	**4**	
11.2	N.Q.A.1c S.IC.A.1 S.IC.A.2 S.IC.A.3	11.2 - Statistical Studies & Sampling Methods (MasteryConnect; SAVVAS) - Survey, Experiment, Observational Study - Biased vs Unbiased - Statistic vs. Parameter	1	9/22 (2/25)
11.3	S.ID.A.1 N.Q.A.1a	11.3 - Data Distributions - Find & Compare Measures of Central Tendency & Spread - Mean, Median, Quartiles, SD, Range, IQR - Discuss Desmos Options - Center & Spread Visually - Compare Representations of Data	1	9/23 (2/26)
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	9/24 (2/27)
		Review Packet #7	1	9/25 (3/2)
		Term Test	1	10/3 (3/6)
		MasteryConnect Benchmark	1	10/13 (3/2)
		Unit 12 - Probability	**4**	
12.1	S.CP.B.2a	12.1 - Probability Events - Independent vs Dependent (Kuta Software)	1	10/13 (3/9)
12.2	S.CP.A.1 S.CP.C.4	12.2 - Conditional Probability	1	10/14 (3/10)

12.3	S.CP.B.2a S.CP.B.2b	12.3 - Permutations & Combinations - Permutations - Combinations - Law of Large Numbers - Fundamental Counting Principle	1	10/15 (3/11)
		Review Packet #8	1	10/16 (3/12)
		EOC Review	~18	
		Quadratic Functions		
		Exponential Functions		
		Matrices & Average Rate of Change		
		Radicals		
		Polynomial Functions		
		EOC		
		MONEY MATH - **Financial Vocabulary** - **Mark-Up vs Discount** - **Mark-Up, Discount, & Tax** - **Simple Interest** - **Compound Interest**		