

Desoto County School District 2019-2020 Algebra II (Spring) Pacing Guide Calendar

			Jan. 2 Teachers Return Professional Development	3 Professional Development
6 Students Return	6 Algebra I Review	7 Algebra I Review	8 Algebra I Review	9 Algebra I Skills Test
13 1.1.2 Using a Graphing Calculator to Explore a Function	14 1.1.3 Domain and Range	15 1.1.4 Points of Intersection in Multiple Representations	16 1.2.2 Function Investigation	17 1.2.3 The Family of Linear Functions
20 Dr. King Holiday: No School	21 1.2.4 Function Investigation Challenge	22 Ch. 1 Closure/Review	23 Chapter 1 Test	24 2.1.1 Modeling Non-Linear Data
27 2.1.2 Parabola Investigation	28 2.1.3 Graphing a Parabola without a Table	29 2.1.4 Rewriting in Graphing Form	30 2.1.5 Mathematical Modeling with Parabolas	31 2.2.1 Transforming Other Parent Graphs
Feb. 3 Cont'd 2.2.1 Transforming Other Parent Graphs	4 2.2.2 Describing (h,k) for each Family of Functions	5 Cont'd 2.2.2 Describing (h,k) for each Family of Functions	6 2.2.4 Transforming of Non-Functions	7 2.2.5 Transforming Piecewise-Defined Functions ACT: February 8
10 Chapter 2 Closure/Review	11 Chapter 2 Test	12 3.1.1 Equivalent Expressions	13 3.1.2 Rewriting Expressions and Determining Equivalence	14 Cont'd 3.1.2 Rewriting Expressions and Determining Equivalence
17 Presidents' Day: No School	18 3.1.3 Solving by Rewriting	19 3.2.2 Simplifying Rational Expressions	20 3.2.3 Multiplying and Dividing Rational Expressions	21 3.2.4 Adding and Subtracting Rational Expressions
24 3.2.5 Creating New Functions	25 Chapter 3 Closure/Review State ACT for JUNIORS	26 Chapter 3 Test	27 4.1.1 & 4.1.2 -Strategies for Solving Equations -Solving Equations and Systems Graphically	28 4.1.3 Finding Multiple Solutions of Equations

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Mar. 2 4.1.4 Using Systems of Equations to Solve Problems	3 4.2.1 Solving Inequalities with One or Two Variables	4 Review for Exam	5 3rd Nine Weeks Exam	6
16 4.2.2 Using Systems to Solve a Problem	17 4.2.3 Application of Systems of Linear Inequalities	18 4.2.4 Using Graphs to Find Solutions	19 Chapter 4 Closure/Review	20 Chapter 4 Test
23 5.1.1 Undo Rules	24 5.1.2 Using a Graph to Find the Inverse	25 Cont'd 5.1.2 Using a Graph to Find the Inverse	26 5.1.3 Finding Inverses and Justifying Algebraically	27 5.2.1 Investigating Rational Functions
30 5.2.2 Defining the Inverse of an Exponential Function	31 5.2.3 Investigating the Family of Logarithmic Function	Apr. 1 5.2.4 Transformations of Logarithmic Functions	2 Chapter 5 Closure/Review	3 Chapter 5 Test ACT: April 4
6 6.1.4 Solving Systems of Three Equations with Three Unknowns	7 Cont'd 6.1.4 Solving Systems of Three Equations with Three Unknowns	8 6.1.5 Using Systems of Three Equations for Curve Fitting	9 6.2.1 Using Logarithms to Solve Exponential Equations	10 Good Friday: No School
13 Easter Monday: No School	14 Cont'd 6.2.1 Using Logarithms to Solve Exponential Equations	15 6.2.2 Investigating the Properties of Logarithms	16 Cont'd 6.2.2 Investigating the Properties of Logarithms	17 6.2.3 Writing Equations of Exponential Functions
20 Cont'd 6.2.3 Writing Equations of Exponential Functions	21 6.2.4 An Application of Logarithms	22 Cont'd 6.2.4 An Application of Logarithms	23 Chapter 6 Closure/Review	24 Chapter 6 Test
27 8.1.1 Sketching Graphs of Polynomial Functions	28 8.1.2 More Graphs of Polynomials	29 8.1.3 Stretch Coefficients for Polynomial Functions	30 8.2.1 Introducing Imaginary Numbers	May 1 8.2.2 Complex Roots
4 8.2.3 More Complex Numbers and Equations	5 8.3.1 Polynomial Division	6 8.3.2 Factors and Integral Roots	7 Cont'd 8.3.2 Factors and Integral Roots	8 8.3.3 An Application of Polynomials

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11 Chapter 8 Closure/Review	12 Chapter 8 Test	13 7.1.2* Graphing the Sine Function	14 Cont'd 7.1.2* Graphing the Sine Function	15 7.1.3* Unit Circle \leftrightarrow Graph
18 Review for Exam	19 Semester Exams		21 Students Last Day	22 Teachers Last Day

Notes: Algebra I Concepts to review could include but are not limited to the following:

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| <ul style="list-style-type: none"> • Solve Multi-Step Linear Equations • Use geometric sequences to solve problems involving percent increase and decrease. • Solve/Graph Linear Equations and Inequalities with one and two variables. • Quadratic Formula | <ul style="list-style-type: none"> • Write/Graph the equation of a line in slope-intercept form • Use the parent function $y = a \cdot b^x$ to describe and predict the effects of parameter changes on graphs of exponential functions. • Write explicit expressions for arithmetic and geometric sequences. • Compare and contrast linear and exponential models. | <ul style="list-style-type: none"> • Calculate slope using graphs and formulas • Write and use models for exponential growth and decay. • Differentiate among rational, irrational and real numbers. • Identify the key characteristics of exponential functions including domain, range, intercepts, and shape. | <ul style="list-style-type: none"> • Factor polynomial expressions written in standard and non-standard forms. • Create multiple representations of exponential functions including a table, equation, graph, and situation and solidify their connection. • Simplify expressions including rational coefficients and exponents • Find equations of exponential functions by using known quantities to solve for missing parameter (for example, given two points, initial value and point). |
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Beginning the 2016-2017 school year, we will no longer teach Appendices A & B in Algebra II. The students that are enrolled in Algebra II at this time have covered the topics covered in these appendices while taking the CCSS Algebra I course.

*Indicates the lesson was adjusted or out of sequence.

- Some chapters/sections were omitted due to time constraints and/or standards not included in MS CCRS for Algebra II, therefore teachers must preview homework questions to be sure no problems are assigned from an omitted chapter/section.
- Supplemental resources have been added to the OneDrive to supplement lessons and to allow for additional practice.

This pacing calendar follows the CPM Algebra II Textbook that the district has adopted as a resource to assist in teaching the MS College & Career Readiness Standards (MS CCRS) for Algebra II. The specific lessons addressed in this pacing guide are aligned to the set standards. However, this pacing guide is not meant to be an exhaustive list nor is it a list that limits how the standards are taught in the classroom. This is a sample pacing to help teachers with planning and a guide to understand the knowledge and skills that define the standards.

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