# Desoto County School District 2019-2020
# Algebra I (Spring Semester) Pacing Guide Calendar

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| | | | **Jan. 2**<br>**Teachers Return**<br>**Professional Development** | **3**<br>**Professional Development** |
| **6**<br>**Students Return** | **7**<br>Review | **8**<br>Review | **9**<br>1.2.1 & 1.2.3<br>-Describing a Graph<br>-Function Machines | **10**<br>1.2.4 & 1.2.5<br>-Functions<br>-Domain & Range |
| **13**<br>Recognize Even/Odd Functions from Graphs & Expressions* | **14**<br>2.1.1 & 2.1.2<br>-Seeing Growth in Linear Representation<br>-Slope | **15**<br>2.1.3 & 2.1.4<br>-Comparing □ y and □ x<br>-$y = mx + b$ and More on Slope | **16**<br>2.2.1 & 2.2.2<br>-Slope as Motion<br>-Rate of Change | **17**<br>Cont'd 2.2.2/2.2.3<br>-Rate of Change<br>-Equation of Lines in Situations |
| **20**<br>**Dr. King Holiday: No School** | **21**<br>2.3.1 & 2.3.2<br>-Finding an Equation Given a Slope and a Point<br>-Finding the Equation of a Line Through Two Points | **22**<br>Ch. 1 & 2 Closure/Review | **23**<br>**Chapter 1 & 2 Test** | **24**<br>3.1.1 & 3.1.2<br>-Simplifying Exponential Expressions<br>-Zero and Negative Exponents |
| **27**<br>3.2.1 or *Alt. Lesson<br>-Equations↔Algebra Tiles (Lesson Optional)<br>*Combining Like Terms | **28**<br>3.2.2 & 3.2.3<br>-Exploring an Area Model<br>-Multiplying Binomials and the Distributive Property (Tiles Optional)) | **29**<br>3.2.4 (Multiply Polynomials)<br>-Using Generic Rectangles to Multiply<br>(Tiles Optional) | **30**<br>3.3.1 & Extra Practice*<br>-Solving Equations with Multiplication<br>*Solving Absolute Value Equations w/ 1-variable is no longer in the MS CCRS standards for Algebra 1 | **31**<br>3.3.2 & Extra Practice*<br>-Working with Multi-Variable Equations (incl. Fraction Busters)<br>*Solving for Specific Value using Formulas |
| **Feb. 3**<br>3.3.3<br>-Summary of Solving Equations (incl. Fraction Busters) | **4**<br>Ch. 3 Closure/Review | **5**<br>**Chapter 3 Test** | **6**<br>4.1.1<br>-Solving Word Problems by Writing Equations | **7**<br>4.1.2 & 4.2.1<br>-One Equation or Two?<br>-Solving Systems of Equations Using Substitution |
| **10**<br>4.2.2 & 4.2.3 (w/o Tiles)<br>-Making Connections: Systems, Solutions, Graphs<br>-Solving Systems Using Elimination | **11**<br>4.2.3 (w/o Tiles)<br>-Solving Systems Using Elimination | **12**<br>4.2.4<br>More Elimination | **13**<br>4.2.5<br>Choosing a Strategy for Solving Systems | **14**<br>4.3.1 & Extra Practice*<br>-Putting it all Together<br>*Solving System of Equations using multiple methods include WP |



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Describe graphs including linear, quadratic, absolute value, and exponential functions, using key words such as intercepts, minima, maxima, vertex, symmetry, intervals where the function is increasing, decreasing, positive or negative and determine the domain and range of such functions.

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| **17**<br>**Presidents' Day: No School** | **18**<br>Ch. 4 Closure/Review | **19**<br>**Chapter 4 Test** | **20**<br>5.1.1<br>Representing Exponential Growth | **21**<br>5.2.1<br>Generating and Investigating Sequences |
| **24**<br>5.2.2<br>Generalizing Arithmetic Sequences<br>**Case 21 Window Opens** | **25**<br>5.3.1<br>Patterns of Growth in Tables and Graphs | **26**<br>5.3.2<br>Using Multipliers to Solve Problems | **27**<br>Ch. 5 Closure/Review | **28**<br>**Chapter 5 Test** |
| **Mar. 2**<br>7.1.1 & 7.1.2<br>- Investigating $y = b^x$<br>-Multiple Representations of Exponential Functions | **3**<br>7.1.3<br>More Applications of Exponential Growth | **4**<br>**Review for Exam** | **5**<br>**3rd Nine Weeks Exam** | **6**<br>**Case 21 Window Closes** |



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| **Mar. 16**<br>7.1.4<br>Exponential Decay | **17**<br>7.1.5 & 7.1.6<br>-Graph to Equation<br>-Completing the Multiple Representation Web | **18**<br>7.2.1 & 7.2.3<br>-Curve Fitting and Fractional Exponents<br>-Solving a System of Exponential Functions Graphically | **19**<br>Ch. 7 Closure/Review | **20**<br>**Chapter 7 Test** |
| **23**<br>8.1.1 & 8.1.2 (Tiles Optional)<br>-Introduction of Factoring Quadratics<br>-Factoring with Generic Rectangles | **24**<br>8.1.3<br>Factoring with Special Cases | **25**<br>8.1.4 & 8.1.5<br>-Factoring Completely<br>-Factoring Shortcuts | **26**<br>8.2.1<br>Multiple Representations for Quadratic Functions | **27**<br>8.2.2<br>Zero Product Property |
| **30**<br>8.2.3<br>More Ways to Find the *x*-Intercepts | **31**<br>8.2.4<br>Completing the Quadratic Web | **Apr. 1**<br>8.2.5<br>Completing the Square | **2**<br>Ch. 8 Closure/Review | **3**<br>**Chapter 8 Test** |
| **6**<br>9.1.1 & 9.1.2<br>-Solving Quadratic Equations<br>-Introduction to the Quadratic Formula | **7**<br>9.1.3<br>More Solving Quadratic Equations | **8**<br>9.1.4<br>Choosing a Strategy | **9**<br>9.2.1 & 9.2.2<br>-Solving Linear, One-Variable Inequalities<br>-More Solving Inequalities | **10**<br>**Good Friday: No School** |
| **13**<br>**Easter Monday: No School**<br>**MAAP Window Opens** | **14**<br>9.4.1 & 9.4.2<br>-Systems of Inequalities<br>-More Systems of Inequalities | **15**<br>9.4.3<br>Applying Inequalities to Solve Problems | **16**<br>Ch. 9 Closure/Review | **17**<br>**Chapter 9 Test** |
| **20**<br>11.1.1<br>Transforming Functions | **21**<br>11.1.1<br>Transforming Functions | **22**<br>11.2.1 & 11.2.2<br>-Investigating Data Representation<br>-Comparing Data | **23**<br>11.2.3<br>Standard Deviation | **24**<br>10.1.1<br>Association in Two-Way Tables |
| **27**<br>Extra Practice*<br>*Probability | **28**<br>6.1.1 & 6.1.4<br>-Line of Best Fit<br>-Least Squares Regression Line | **29**<br>6.2.2 & 6.2.3<br>-Correlation<br>Association is Not Causation | **30**<br>6.2.4<br>Interpreting Correlation in Context | **May 1**<br>Ch. 6 Closure/Review |



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| **4** Review | **5** Review | **6** Review | **7** Review | **8** Review |
| **11** Review | **12** Review | **13** Review | **14** Review | **15** **MAAP Window Closes** |
| **18** Review for Exam | **19** **Semester Exams** | **20** | **21** **Students Last Day** | **22** **Teachers Last Day** |

Basic Skills to review could include but are not limited to the following:

- Evaluate algebraic expressions, including those with exponents, absolute value, perfect square roots, and perfect cube roots (First 5 perfect cubes).
- Solve one-variable linear equations and inequalities.
- Differentiate among rational, irrational and real numbers.
- Perform operations on rational expressions.
- Plot ordered pairs on a coordinate plane.

*Indicates the lesson was adjusted or a change in sequence.



**Notes:**

- Section 10.2 (Complex Equations) can be incorporated when teaching Section 3.3.3.
- Chapter 6 can be assessed on the Semester Exam.
- Some chapters/sections were omitted due to time constraints and/or standards not included in MS CCRS for Algebra I, 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.
- MAAP Test dates are tentative. Individual schools will decide exact test dates.
- Review days are built in to allow teachers the autonomy to adjust lessons, expand on particular concepts, visit computer lab, or to review sample items.

***This pacing calendar follows the CPM Algebra I Textbook that the district has adopted as a resource to assist in teaching the MS College & Career Readiness Standards (MS CCRS) for Algebra I. 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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