


Mathematics – Algebra II

2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – Parent Functions and Data Regression

Students survey functions studied in this course, identify their attributes, and use data regression to connect real world data to selected functions.

2021		August				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02	03	04	05	06	07
Enrichment Opportunities						
08	09	10	11	12	13	14
Enrichment Opportunities						
15	16	17	18	19	20	21
Teacher Service Days (no students)		Teacher Prep Day (no students)		Teacher Service Days (no students)		
22	23 	24 Unit 1 (8 45-min. class periods)	25	26	27	28
29	30 Unit 1 (8 45-min. class periods)	31	01	02	03	04
05	06	Notes: Aug. 16-20 - Teacher Service Days (no students)				

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Units of Instruction

Unit 1 – Parent Functions and Data Regression

Students survey functions studied in this course, identify their attributes, and use data regression to connect real world data to selected functions.

Unit 2 – Transformation of Functions

Students apply the properties of functions to their graphs and transformations using multiple representations.

Unit 3 – Composition and Inverse of Functions

Students connect the relationship between a function and its inverse and use composition of functions to determine if functions are inverses of each other.

Unit 4 – Absolute Value Functions

Students solve absolute value equations and inequalities and apply attributes of transformations to absolute value functions.

2021		September				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 Unit 1 (8 45-min. class periods)	02	03 • Extend • Review • Assess • Reteach	04
05	06 Labor Day	07 Unit 2 (6 45-min. class periods)	08	09	10	11
12	13 Unit 2 (6 45-min. class periods)	14	15 • Extend • Review • Assess • Reteach	16 Fall Holiday	17 Teacher Service Day (no students)	18
19	20 Unit 3 (4 45-min. class periods)	21	22	23	24 • Extend • Review • Assess • Reteach	25
26	27 Unit 4 (8 45-min. class periods)	28	29	30	01	02
03	04	Notes: Sept. 6 - Labor Day Sept. 16 - Fall Holiday Sept. 17 - Teacher Service Day (no students)				

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Units of Instruction

Unit 4 – Absolute Value Functions
Students solve absolute value equations and inequalities and apply attributes of transformations to absolute value functions.

Unit 5 – Matrices & Systems of Equations and Inequalities

In real-world situations, students solve and analyze systems of linear equations with two or more variables using graphs, tables, matrices, and algebraic methods.

2021		October				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	01 • Extend • Review • Assess • Reteach	02 END OF CYCLE 1
03	04 Teacher Service Day (no students)	05 Unit 4 (8 45-min. class periods)	06	07	08	09
10	11 • Extend • Review • Assess • Reteach	12 Unit 5 (14 45-min. class periods)	13	14	15	16
17	18 Unit 5 (14 45-min. class periods)	19	20	21	22 • Extend • Review • Assess • Reteach	23
24	25 Unit 5 (14 45-min. class periods)	26	27	28	29 • Extend • Review • Assess • Reteach	30
31	01	Notes: Oct. 4 - Teacher Service Day (no students)				

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Units of Instruction

Unit 5 – Matrices & Systems of Equations and Inequalities

In real-world situations, students solve and analyze systems of linear equations with two or more variables using graphs, tables, matrices, and algebraic methods.

Unit 6 – Transformations and Attributes of Quadratic Functions

Students analyze the transformation of a quadratic function through multiple representations.

Unit 7 – Factoring and Complex Numbers

Students explore various methods of factoring polynomials and introduction of complex numbers.

2021		November				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	01 Unit 5 (14 45-min. class periods)	02	03 • Extend • Review • Assess • Reteach	04 Unit 6 (8 45-min. class periods)	05	06
07	08 Unit 6 (8 45-min. class periods)	09	10	11 • Extend • Review • Assess • Reteach	12	13 END OF CYCLE 2
14	15 Unit 6 (8 45-min. class periods)	16	17	18 • Extend • Review • Assess • Reteach	19	20
21	22	23	24	25	26	27
Thanksgiving						
28	29 Unit 7 (6 45-min. class periods)	30	01	02	03	04
05	06	Notes: Nov. 22-26 - Thanksgiving Break				

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Units of Instruction

Unit 7 – Factoring and Complex Numbers
 Students explore various methods of factoring polynomials and introduction of complex numbers.

Unit 8 – Solving Quadratic Equations and Inequalities
 Students analyze solutions of quadratic equations and inequalities using multiple representations.

2021		December				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	01 Unit 7 (6 45-min. class periods)	02	03 • Extend • Review • Assess • Reteach	04
05	06 Unit 7 (6 45-min. class periods)	07	08 • Extend • Review • Assess • Reteach	09 Unit 8 (6 45-min. class periods)	10	11
12	13 Unit 8 (6 45-min. class periods)	14	15	16	17 • Extend • Review • Assess • Reteach	18
19	20	21	22	23	24	25
	Enrichment Opportunities		Winter Break			
26	27	28	29	30	31	01
	Winter Break					
02	03	Notes: Dec. 20-31 - Winter Break				

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Units of Instruction

Unit 9 – Applications of Quadratic Equations and Inequalities

Students analyze quadratic functions and connect attributes to real world situations.

Unit 10 – Systems of Linear and Quadratic Equations

Students analyze a system of equations in two variables consisting of a linear equation and a quadratic equation.

2022		January				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02	03 Unit 9 (6 45-min. class periods)	04	05	06 • Extend • Review • Assess • Reteach	07	08
09	10 • Extend • Review • Assess • Reteach	11 	12 	13 	14 	15 END OF CYCLE 3
16	17 Martin Luther King, Jr. Day	18 Teacher Prep Day (no students)	19 Unit 9 (6 45-min. class periods)	20	21	22
23	24 • Extend • Review • Assess • Reteach	25 Unit 10 (4 45-min. class periods)	26	27	28	29
30	31 • Extend • Review • Assess • Reteach	Notes: Jan. 17 - Martin Luther King, Jr. Day Jan. 18 - Teacher Preparation Day (no students)				

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Units of Instruction

Unit 11 – Radicals and Rational Exponents
Students simplify radical expressions and rational exponents and explore relationship to laws of exponents.

Unit 12 – Root Equations and Functions
Students explore transformations and attributes of square root and cube root functions.

Unit 13 – Root Equations
Students solve square root and cube root equations.

Unit 14 – Polynomial Functions
Students analyze attributes, transformations and applications of polynomial functions within the context of real-world situations.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01 Unit 11 (6 45-min. class periods)	02	03	04 • Extend • Review • Assess • Reteach	05
06	07 Unit 11 (6 45-min. class periods)	08	09	10 • Extend • Review • Assess • Reteach	11 Unit 12 (4 45-min. class periods)	12
13	14 Unit 12 (4 45-min. class periods)	15	16	17 • Extend • Review • Assess • Reteach	18 Unit 13 (4 45-min. class periods)	19
20	21 Teacher Service Day (no students)	22 Unit 13 (4 45-min. class periods)	23	24	25 • Extend • Review • Assess • Reteach	26 END OF CYCLE 4
27	28 Unit 14 (12 45-min. class periods)	01	02	03	04	05
06	07	Notes: Feb. 21 - Teacher Service Day (no students)				

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Units of Instruction

Unit 14 – Polynomial Functions

Students analyze attributes, transformations and applications of polynomial functions within the context of real-world situations.

Unit 15 – Inverse Variation and Transformations of Rational Functions

Students analyze inverse variation and rational functions, transformations through graphs, tables, and algebraic methods.

2022		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 Unit 14 (12 45-min. class periods)	02	03	04 • Extend • Review • Assess • Reteach	05
06	07 Unit 14 (12 45-min. class periods)	08	09	10	11 • Extend • Review • Assess • Reteach	12
13	14	15	16	17	18	19
	Enrichment Opportunities			Spring Break		
20	21 Unit 14 (12 45-min. class periods)	22	23	24	25 • Extend • Review • Assess • Reteach	26
27	28 Chávez / Huerta Day	29 Unit 15 (6 45-min. class periods)	30	31	01	02
03	04	Notes: Mar. 14-18 - Spring Break Mar. 28 - César Chávez/Dolores Huerta Day				

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Units of Instruction

Unit 15 – Inverse Variation and Transformations of Rational Functions
Students analyze inverse variation and rational functions, transformations through graphs, tables, and algebraic methods.

Unit 16 – Rational Equations and Functions
Students analyze rational equations and functions through graphs, tables, and algebraic methods.

Unit 17 – Exponential and Logarithmic Functions
Student analyze transformations, inverses and solve application problems using exponential and logarithmic function.

2022		April				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	31	01 • Extend • Review • Assess • Reteach	02
03	04 Unit 15 (6 45-min. class periods)	05	06	07 • Extend • Review • Assess • Reteach	08	09
10	11 Unit 16 (10 45-min. class periods)	12	13	14	15 Spring Holiday	16
17	18 Unit 16 (10 45-min. class periods)	19	20	21	22 • Extend • Review • Assess • Reteach	23 END OF CYCLE 5
24	25 Unit 16 (10 45-min. class periods)	26	27 • Extend • Review • Assess • Reteach	28 Unit 17 (12 45-min. class periods)	29	30
01	02	Notes: Apr. 15 - Spring Holiday				

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Units of Instruction

Unit 17 – Exponential and Logarithmic Functions

Student analyze transformations, inverses and solve application problems using exponential and logarithmic function.

Unit 18 – Bridge to Precalculus - Trigonometry

Student review trigonometric ratios studied in Geometry. They develop the relationship between the unit circle and the definition of a periodic function and apply trigonometric functions in mathematical and real-world problems.

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 Unit 17 (12 45-min. class periods)	03	04	05	06 • Extend • Review • Assess • Reteach	07
08	09 Unit 17 (12 45-min. class periods)	10	11	12	13 • Extend • Review • Assess • Reteach	14
15	16 Unit 17 (12 45-min. class periods)	17	18 • Extend • Review • Assess • Reteach	19	20 Unit 18 (4 45-min. class periods)	21
22	23 Unit 18 (4 45-min. class periods)	24	25	26 • Extend • Review • Assess • Reteach	27	28
29	30 Memorial Day	31 • Extend • Review • Assess • Reteach	01	02	03	04
05	06	Notes: May 30 - Memorial Day				

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 Units of Instruction**

2022		June				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 • Extend • Review • Assess • Reteach	02 	03 	04
05	06 	07 	08 Teacher Prep Day (no students) END OF CYCLE 6	09	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	01	02
03	04	Notes: Jun. 8 - Teacher Preparation Day (no students)				