


Mathematics – College Prep Mathematics

2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – One-Variable Equations & Inequalities

Students solve and apply linear equations and inequalities in one variable.

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	25	26	27	28
		Unit 1 (7 45-min. class periods)				
29	30	31	01	02	03	04
	Unit 1 (7 45-min. class periods)					
05	06	Notes: Aug. 16-20 - Teacher Service Days (no students)				

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Units of Instruction

Unit 1 – One-Variable Equations & Inequalities

Students solve and apply linear equations and inequalities in one variable.

Unit 2 – Linear Equations and Inequalities

Students analyze, graph, and write various forms of linear equations and inequalities using multiple representations in mathematical and real-world contexts.

Unit 3 – Systems of Equations & Inequalities

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

2021		September				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 Unit 1 (7 45-min. class periods)	02 • Extend • Review • Assess • Reteach	03	04
05	06 Labor Day	07 Unit 2 (8 45-min. class periods)	08	09	10	11
12	13 Unit 2 (8 45-min. class periods)	14	15	16 Fall Holiday	17 Teacher Service Day (no students)	18
19	20 Unit 2 (8 45-min. class periods)	21 • Extend • Review • Assess • Reteach	22 Unit 3 (7 45-min. class periods)	23	24	25
26	27 Unit 3 (7 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 – Polynomials and Operations

Students evaluate, analyze, perform operations on, and apply properties of polynomials.

Unit 5 – Polynomials and Factoring

Students explore various methods of factoring polynomials.

Unit 6 – Quadratic Functions and Equations

Students analyze, graph, and solve quadratic functions and connect the attributes and solutions to real-world situations using multiple representations.

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 (6 45-min. class periods)	06	07	08	09
10	11 Unit 4 (6 45-min. class periods)	12	13 • Extend • Review • Assess • Reteach	14	15 Unit 5 (6 45-min. class periods)	16
17	18 Unit 5 (6 45-min. class periods)	19	20	21	22	23
24	25 • Extend • Review • Assess • Reteach	26	27 Unit 6 (7 45-min. class periods)	28	29	30
31	01	Notes: Oct. 4 - Teacher Service Day (no students)				

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Units of Instruction

Unit 6 – Quadratic Functions and Equations

Students analyze, graph, and solve quadratic functions and connect the attributes and solutions to real-world situations using multiple representations.

Unit 7 – Rational Expressions and Equations

Students analyze, perform operations on, and solve equations and application problems involving rational expressions.

Unit 8 – Radical Expressions and Equations

Students analyze, perform operations on, and solve equations and application problems involving radical expressions and equations.

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

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Units of Instruction

Unit 8 – Radical Expressions and Equations

Students analyze, perform operations on, and solve equations and application problems involving radical expressions and equations.

Unit 9 – Data Analysis, Statistics, and Intro to Set Theory

Students analyze data, statistical models, and Set Theory. Students evaluate models and data in real-world contexts.

2021		December				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	01 Unit 8 (8 45-min. class periods)	02	03	04
05	06 Unit 8 (8 45-min. class periods)	07	08	09	10 • Extend • Review • Assess • Reteach	11
12	13 • Extend • Review • Assess • Reteach	14 Unit 9 (8 45-min. class periods)	15	16	17	18
19	20 Enrichment Opportunities	21	22	23	24	25
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 – Data Analysis, Statistics, and Intro to Set Theory

Students analyze data, statistical models, and Set Theory. Students evaluate models and data in real-world contexts.

Unit 10 – Absolute Value Equations, Inequalities, and Functions

Students solve, analyze, and graph absolute value equations and inequalities.

2022		January				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02	03 Unit 9 (8 45-min. class periods)	04	05	06	07 • Extend • Review • Assess • Reteach	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 10 (8 45-min. class periods)	20	21	22
23	24 Unit 10 (8 45-min. class periods)	25	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 – Factoring Completely

Students use factoring techniques including factoring by grouping, completing the square, sum of two cubes, and difference of two cubes to factor polynomials.

Unit 12 – Transformations and Attributes of Quadratic Functions

Students analyze the transformation of a quadratic function in $f(x) = ax^2 + bx + c$ and $f(x) = a(x - h)^2 + k$ forms through multiple representations.

Unit 13 – Quadratic Equations, Inequalities, and Functions

Students write, and solve quadratic equations by factoring, completing the square, and applying the quadratic formula, and apply these methods to solving real-world problems.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01 Unit 11 (7 45-min. class periods)	02	03	04	05
06	07 Unit 11 (7 45-min. class periods)	08	09	10 • Extend • Review • Assess • Reteach	11	12
13	14 Unit 12 (7 45-min. class periods)	15	16	17	18	19
20	21 Teacher Service Day (no students)	22 Unit 12 (7 45-min. class periods)	23	24 • Extend • Review • Assess • Reteach	25	26 END OF CYCLE 4
27	28 Unit 13 (7 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 13 – Quadratic Equations, Inequalities, and Functions

Students write, and solve quadratic equations by factoring, completing the square, and applying the quadratic formula, and apply these methods to solving real-world problems.

Unit 14 – Systems of Quadratic Equations and Linear Equations

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

Unit 15 – Operations with Complex Numbers

Students will be able to analyze and perform operations with complex numbers.

2022		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 Unit 13 (7 45-min. class periods)	02	03	04	05
06	07 Unit 13 (7 45-min. class periods)	08	09 • Extend • Review • Assess • Reteach	10	11 Unit 14 (6 45-min. class periods)	12
13	14	15	16	17	18	19
Enrichment Opportunities				Spring Break		
20	21 Unit 14 (6 45-min. class periods)	22	23	24	25	26
27	28 Chávez / Huerta Day	29 • Extend • Review • Assess • Reteach	30	31 Unit 15 (6 45-min. class periods)	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 – Operations with Complex Numbers

Students will be able to analyze and perform operations with complex numbers.

Unit 16 – Root Functions

Students analyze, perform operations on, and solve equations and application problems involving radical expressions.

Unit 17 – Rational Equations and Functions

Students analyze rational equations and functions through graphs, tables, and algebraic methods.

2022		April					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
27	28	29	30	31	01 Unit 15 (6 45-min. class periods)	02	
03	04 Unit 15 (6 45-min. class periods)	05	06	07	08 • Extend • Review • Assess • Reteach	09	
10	11 Unit 16 (7 45-min. class periods)	12	13	14	15 Spring Holiday	16	
17	18 Unit 16 (7 45-min. class periods)	19	20	21 • Extend • Review • Assess • Reteach	22	23 END OF CYCLE 5	
24	25 Unit 17 (7 45-min. class periods)	26	27	28	29	30	
01	02	Notes: Apr. 15 - Spring Holiday					

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Units of Instruction

Unit 17 – Rational Equations and Functions

Students analyze rational equations and functions through graphs, tables, and algebraic methods.

Unit 18 – Exponential and Logarithmic Functions

Students graph, analyze, and solve exponential and logarithmic functions and equations.





Unit 19 – Data Analysis, Statistics, and Probability

Students analyze data, statistical models, and probability situations and evaluate models of regressions in real-world contexts.

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 Unit 17 (7 45-min. class periods)	03	04 • Extend • Review • Assess • Reteach	05 Unit 18 (7 45-min. class periods)	06	07
08	09 Unit 18 (7 45-min. class periods)	10	11	12	13	14
15	16 • Extend • Review • Assess • Reteach	17 Unit 19 (7 45-min. class periods)	18	19	20	21
22	23 Unit 19 (7 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)				