


Mathematics – Algebra I

2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – Equations and Inequalities

Students apply algebraic properties to solve multi-step linear equations and inequalities.

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 (6 45-min. class periods)				
29	30	31	01	02	03	04
	Unit 1 (6 45-min. class periods)					
05	06	Notes: Aug. 16-20 - Teacher Service Days (no students)				

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Units of Instruction

Unit 2 – Introduction to Functions
Students study and apply attributes of functions.

Unit 3 – Rate of Change/Slope of Lines
Students calculate the slope and rate of change from multiple representations in mathematical and real-world problems.

Unit 4 – Equations of Lines
Students write various forms of linear equations from multiple representations and connect them to their graphs and to the parent graph of linear functions in mathematical and real-world situations, including parallel and perpendicular lines.

2021		September				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 • Extend • Review • Assess • Reteach	02 Unit 2 (6 45-min. class periods)	03	04
05	06 Labor Day	07 Unit 2 (6 45-min. class periods)	08	09	10	11
12	13 • Extend • Review • Assess • Reteach	14 Unit 3 (4 45-min. class periods)	15	16 Fall Holiday	17 Teacher Service Day (no students)	18
19	20 Unit 3 (4 45-min. class periods)	21	22 • Extend • Review • Assess • Reteach	23 Unit 4 (6 45-min. class periods)	24	25
26	27 Unit 4 (6 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 5 – Transformation of Linear Functions

Students analyze the effects of transformations on the graph of the linear parent function.

Unit 6 – Scatterplots and Trend Lines

Students analyze a scatterplot to write the equation of a line of best fit and make predictions based on the equation.

Unit 7 – Linear Inequalities

Students write, graph and solve linear inequalities in two variables.

Unit 8 – Systems of Linear Equations

Students write, graph, and solve systems of linear equations using algebraic methods and explore real-world connections.

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 5 (4 45-min. class periods)	06	07	08	09	
10	11 • Extend • Review • Assess • Reteach	12 Unit 6 (4 45-min. class periods)	13	14	15	16	
17	18 • Extend • Review • Assess • Reteach	19 Unit 7 (4 45-min. class periods)	20	21	22	23	
24	25 Unit 8 (8 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 8 – Systems of Linear Equations

Students write, graph, and solve systems of linear equations using algebraic methods and explore real-world connections.

Unit 9 – Systems of Linear Inequalities

Students formulate, graph, and solve systems of linear inequalities using algebraic methods and explore real-world connections.

Unit 10 – Sequences

Students analyze arithmetic and geometric sequences.

2021		November				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	01 Unit 8 (8 45-min. class periods)	02	03	04	05 • Extend • Review • Assess • Reteach	06
07	08 • Extend • Review • Assess • Reteach	09 Unit 9 (6 45-min. class periods)	10	11	12 • Extend • Review • Assess • Reteach	13 END OF CYCLE 2
14	15 Unit 9 (6 45-min. class periods)	16	17	18 • Extend • Review • Assess • Reteach	19 Unit 10 (4 45-min. class periods)	20
21	22-26 Thanksgiving					27
28	29 Unit 10 (4 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 10 – Sequences

Students analyze arithmetic and geometric sequences.

Unit 11 – Exponents and Radicals

Students simplify algebraic expressions involving exponents and radicals.

Unit 12 – Polynomial Operations

Students perform operations on polynomials.

2021		December					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
28	29	30	01 Unit 10 (4 45-min. class periods)	02 • Extend • Review • Assess • Reteach	03	04	
05	06 Unit 11 (5 45-min. class periods)	07	08	09	10	11	
12	13 Unit 12 (5 45-min. class periods)	14	15	16	17	18	
19	20 Enrichment Opportunities	21	22	23 Winter Break	24	25	
26	27	28	29	30 Winter Break	31	01	
02	03	Notes: Dec. 20-31 - Winter Break					





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Units of Instruction

Unit 13 – Factors of Polynomials
Students factor polynomial expressions.

Unit 14 – Division of Polynomials
Students divide polynomial expressions.

2022		January				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02	03 • Extend • Review • Assess • Reteach	04 Unit 13 (8 45-min. class periods)	05	06	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 13 (8 45-min. class periods)	20	21	22
23	24 Unit 13 (8 45-min. class periods)	25 • Extend • Review • Assess • Reteach	26 Unit 14 (4 45-min. class periods)	27	28	29
30	31 Unit 14 (4 45-min. class periods)	Notes: Jan. 17 - Martin Luther King, Jr. Day Jan. 18 - Teacher Preparation Day (no students)				

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Units of Instruction

Unit 15 – Quadratic Graphs and Their Properties

Students analyze the key attributes of quadratic functions and write equations of quadratic functions using regressions.

Unit 16 – Solutions of Quadratic Equations

Students solve quadratic equations using various methods.

Unit 17 – Quadratic Functions

Students write quadratic equations from given solutions or attributes and convert from vertex to standard form.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01 • Extend • Review • Assess • Reteach	02 Unit 15 (6 45-min. class periods)	03	04	05
06	07 Unit 15 (6 45-min. class periods)	08	09	10 • Extend • Review • Assess • Reteach	11 Unit 16 (8 45-min. class periods)	12
13	14 Unit 16 (8 45-min. class periods)	15	16	17	18	19
20	21 Teacher Service Day (no students)	22 Unit 16 (8 45-min. class periods)	23	24 • Extend • Review • Assess • Reteach	25	26 END OF CYCLE 4
27	28 Unit 17 (4 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 17 – Quadratic Functions

Students write quadratic equations from given solutions or attributes and convert from vertex to standard form.

Unit 18 – Transformation of Quadratic Functions

Students graph quadratic functions and analyze the effects of transformations on the parent function of the graphs.

Unit 19 – Exponential Functions

Students graph quadratic functions and analyze the effects of transformations on the parent function of the graphs.

2022		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 Unit 17 (4 45-min. class periods)	02	03	04 • Extend • Review • Assess • Reteach	05
06	07 Unit 18 (4 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 • Extend • Review • Assess • Reteach	22	23 Unit 19 (10 45-min. class periods)	24	25	26
27	28 Chávez / Huerta Day	29 • Extend • Review • Assess • Reteach	30 Unit 19 (10 45-min. class periods)	31	01	02
03	04	Notes: Mar. 14-18 - Spring Break Mar. 28 - César Chávez/Dolores Huerta Day				

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Unit 19 – Exponential Functions

Students graph quadratic functions and analyze the effects of transformations on the parent function of the graphs.

Unit 20 – Readiness and Supporting Standards Review

Students review relevant STAAR EOC standards prior to testing using appropriate problem-solving strategies and thinking routines (based on individual student data).

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

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Unit 20 – Readiness and Supporting Standards Review

Students review relevant STAAR EOC standards prior to testing using appropriate problem-solving strategies and thinking routines (based on individual student data).

Unit 21 – Transformation of Linear and Quadratic Functions

Students continue to analyze the effects of transformations on the graphs of linear and quadratic parent functions.

Unit 22 – SAT Review

Students review concepts to assist with taking the SAT.

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 Unit 20 (10 45-min. class periods)	03	04	05	06	07
08	09 Unit 21 (10 45-min. class periods)	10	11	12	13	14
15	16 Unit 21 (10 45-min. class periods)	17	18	19	20	21
22	23 Unit 22 (5 45-min. class periods)	24	25	26	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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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)				