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Mathematics – Algebraic Reasoning

2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – Linear Functions
Students identify a linear function from its finite differences and write the function rule. Students will analyze and identify attributes of linear functions in context of graphical, tabular, symbolic, and real-world models.

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

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2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – Linear Functions
Students identify a linear function from its finite differences and write the function rule. Students will analyze and identify attributes of linear functions in context of graphical, tabular, symbolic, and real-world models.

Unit 2 – Absolute Value Functions
Students identify and analyze attributes of absolute value functions in context of graphical, tabular, symbolic, and real-world models.

2021 September

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 **Unit 1** (16 45-min. class periods)	02	03	04
05	06 **Labor Day**	07 **• Extend** **• Review** **• Assess** **• Reteach**	08 **Unit 1** (16 45-min. class periods)	09	10	11
12	13 **Unit 1** (16 45-min. class periods)	14	15	16 **Fall Holiday**	17 **Teacher Service Day (no students)**	18
19	20 **Unit 1** (16 45-min. class periods)	21 **• Extend** **• Review** **• Assess** **• Reteach**	22 **Unit 2** (10 45-min. class periods)	23	24	25
26	27 **Unit 2** (10 45-min. class periods)	28	29	30 **• Extend** **• Review** **• Assess** **• Reteach**	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 2 – Absolute Value Functions
Students identify and analyze attributes of absolute value functions in context of graphical, tabular, symbolic, and real-world models.

Unit 3 – Matrices and Systems of Linear Equations
Students perform operations on matrices and solve systems of equations of two- and three-variable equations in context of mathematical and real-world situations using matrices.

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 2** (10 45-min. class periods)	06	07	08	09
10	11 **Unit 2** (10 45-min. class periods)	12	13 • Extend • Review • Assess • Reteach	14	15 **Unit 3** (16 45-min. class periods)	16
17	18 **Unit 3** (16 45-min. class periods)	19	20	21	22 • Extend • Review • Assess • Reteach	23
24	25 **Unit 3** (16 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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2021-2022 Pacing Calendar

Units of Instruction

Unit 3 – Matrices and Systems of Linear Equations
Students perform operations on matrices and solve systems of equations of two- and three-variable equations in context of mathematical and real-world situations using matrices.

Unit 4 – Quadratic Functions
Students identify a quadratic function from its finite differences and write the function rule. Students will identify and analyze attributes of quadratic functions in context of graphical, tabular, symbolic, and real-world models.

2021 November

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	01 **Unit 3** (16 45-min. class periods)	02	03	04	05 **• Extend** **• Review** **• Assess** **• Reteach**	06
07	08 **Unit 3** (16 45-min. class periods)	09	10	11 **• Extend** **• Review** **• Assess** **• Reteach**	12	13 **END OF CYCLE 2**
14	15 **Unit 4** (18 45-min. class periods)	16	17	18	19	20
21	22	23	24 **Thanksgiving**	25	26	27
28	29 **Unit 4** (18 45-min. class periods)	30	01	02	03	04
05	06	**Notes:** Nov. 22-26 - Thanksgiving Break				

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2021-2022 Pacing Calendar

Units of Instruction

Unit 4 – Quadratic Functions
Students identify a quadratic function from its finite differences and write the function rule. Students will identify and analyze attributes of quadratic functions in context of graphical, tabular, symbolic, and real-world models.

2021 December

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

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2021-2022 Pacing Calendar

Units of Instruction

Unit 5 – Cubic Functions
Students identify a cubic function from its finite differences and write the function rule. Students will identify and analyze attributes of cubic functions in context of graphical, tabular, symbolic, and real-world models.

2022 January

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02	03 • Extend • Review • Assess • Reteach	04 **Unit 5** (16 45-min. class periods)	05	06 • Extend • Review • Assess • Reteach	07	08
09	10 • Extend • Review • Assess • Reteach	11 FINAL EXAMS	12 FINAL EXAMS	13 FINAL EXAMS	14 FINAL EXAMS	15 **END OF CYCLE 3**
16	17 **Martin Luther King, Jr. Day**	18 **Teacher Prep Day (no students)**	19 **Unit 5** (16 45-min. class periods)	20	21	22
23	24 **Unit 5** (16 45-min. class periods)	25	26	27	28 • Extend • Review • Assess • Reteach	29
30	31 **Unit 5** (16 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 5 – Cubic Functions
Students identify a cubic function from its finite differences and write the function rule. Students will identify and analyze attributes of cubic functions in context of graphical, tabular, symbolic, and real-world models.

Unit 6 – Square Root and Cube Root Functions
Students identify square-root and cube-root functions from their finite differences and define their relationship to quadratic and cubic functions. Students will identify and analyze attributes of square-root and cube-root functions in context of graphical, tabular, symbolic, and real-world models.

2022 February

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01 **Unit 5** (16 45-min. class periods)	02	03	04 • **Extend** • **Review** • **Assess** • **Reteach**	05
06	07 **Unit 5** (16 45-min. class periods)	08	09	10 • **Extend** • **Review** • **Assess** • **Reteach**	11 **Unit 6** (10 45-min. class periods)	12
13	14 **Unit 6** (10 45-min. class periods)	15	16	17	18 • **Extend** • **Review** • **Assess** • **Reteach**	19
20	21 **Teacher Service Day (no students)**	22 **Unit 6** (10 45-min. class periods)	23	24	25 • **Extend** • **Review** • **Assess** • **Reteach**	26 **END OF CYCLE 4**
27	28 **Unit 6** (10 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 6 – Square Root and Cube Root Functions
Students identify square-root and cube-root functions from their finite differences and define their relationship to quadratic and cubic functions. Students will identify and analyze attributes of square-root and cube-root functions in context of graphical, tabular, symbolic, and real-world models.

Unit 7 – Exponential and Logarithmic Functions
Students identify an exponential function from its common ratio and write a function rule. Students will identify and analyze attributes of exponential and logarithmic functions in context of graphical, tabular, symbolic, and real-world models, as well as their relationship as inverse to each other.

2022 March

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 **Unit 6** (10 45-min. class periods)	02 **• Extend** **• Review** **• Assess** **• Reteach**	03 **Unit 7** (14 45-min. class periods)	04	05
06	07 **Unit 7** (14 45-min. class periods)	08	09	10	11 **• Extend** **• Review** **• Assess** **• Reteach**	12
13	14 **Enrichment Opportunities**	15	16	17 **Spring Break**	18	19
20	21 **• Extend** **• Review** **• Assess** **• Reteach**	22 **Unit 7** (14 45-min. class periods)	23	24	25	26
27	28 **Chávez / Huerta Day**	29 **Unit 7** (14 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 7 – Exponential and Logarithmic Functions
Students identify an exponential function from its common ratio and write a function rule. Students will identify and analyze attributes of exponential and logarithmic functions in context of graphical, tabular, symbolic, and real-world models, as well as their relationship as inverse to each other.

Unit 8 – Rational Functions
Students analyze and predict reasonable input and output values for rational functions in real-world situations.

Unit 9 – Analyzing Real-World Models
Students analyze and model data based on real-world situations with corresponding functions.

2022 April

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	31	01 **Unit 7** (14 45-min. class periods)	02
03	04 • **Extend** • **Review** • **Assess** • **Reteach**	05 **Unit 8** (12 45-min. class periods)	06	07	08	09
10	11 **Unit 8** (12 45-min. class periods)	12	13	14 • **Extend** • **Review** • **Assess** • **Reteach**	15 **Spring Holiday**	16
17	18 **Unit 8** (12 45-min. class periods)	19	20	21 • **Extend** • **Review** • **Assess** • **Reteach**	22	23 **END OF CYCLE 5**
24	25 **Unit 8** (12 45-min. class periods)	26	27 • **Extend** • **Review** • **Assess** • **Reteach**	28 **Unit 9** (16 45-min. class periods)	29	30
01	02	**Notes:** Apr. 15 - Spring Holiday				

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Units of Instruction

Unit 9 – Analyzing Real-World Models
Students analyze and model data based on real-world situations with corresponding functions.

2022 May

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 **Unit 9** (16 45-min. class periods)	03	04	05	06 **• Extend** **• Review** **• Assess** **• Reteach**	07
08	09 **Unit 9** (16 45-min. class periods)	10	11	12	13 **• Extend** **• Review** **• Assess** **• Reteach**	14
15	16 **Unit 9** (16 45-min. class periods)	17	18	19	20 **• Extend** **• Review** **• Assess** **• Reteach**	21
22	23 **Unit 9** (16 45-min. class periods)	24	25 **• Extend** **• Review** **• Assess** **• Reteach**	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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Units of Instruction

2022 June

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 • Extend • Review • Assess • Reteach	02 FINAL EXAMS	03 FINAL EXAMS	04
05	06 FINAL EXAMS	07 FINAL EXAMS	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)