



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Mathematics – Grade 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – College Planning with Financial Literacy

Students apply financial literacy concepts to calculate simple and compound interest earnings, while making decisions on future plans, including attending a 2-year or 4-year college.

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 – Real Numbers Including Scientific Notation

Students focus on the set of real numbers and its various subsets, including integers and rational numbers. Students convert between standard notation and scientific notation, as well as approximate the value of irrational numbers and locate those values on a number line.

Unit 3 – Properties of Expressions, Equations, and Inequalities

Students learn the properties of real numbers, including the distributive property, and use those properties to simplify expressions, equations, and inequalities.

Unit 4 – One-Variable Equations and Inequalities and their Applications

Students model, write, and solve multi-step equations and inequalities in application situations using mathematical properties and operations.

2021		September				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 • Extend • Review • Assess • Reteach	02 Unit 2 (4 45-min. class periods)	03	04
05	06 Labor Day	07 Unit 2 (4 45-min. class periods)	08	09 • Extend • Review • Assess • Reteach	10 Unit 3 (4 45-min. class periods)	11
12	13 Unit 3 (4 45-min. class periods)	14	15	16 Fall Holiday	17 Teacher Service Day (no students)	18
19	20 • Extend • Review • Assess • Reteach	21 Unit 4 (8 45-min. class periods)	22	23	24	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 5 – Angles, Triangles, and Transversal Relationships

Students use informal arguments to connect mathematical relationships about angles, triangles, parallel lines, and transversals.

Unit 6 – Pythagorean Theorem

Students use squares, square roots, and irrational numbers in models and diagrams to explain the Pythagorean theorem. They also use the Pythagorean theorem and its converse to solve problems, as well as calculate the distance between two coordinate points on the coordinate plane.

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 (6 45-min. class periods)	06	07	08	09
10	11 Unit 5 (6 45-min. class periods)	12	13 • Extend • Review • Assess • Reteach	14	15 Unit 6 (8 45-min. class periods)	16
17	18 Unit 6 (8 45-min. class periods)	19	20	21	22	23
24	25 Unit 6 (8 45-min. class periods)	26	27 • Extend • Review • Assess • Reteach	28	29 Unit 7 (8 45-min. class periods)	30
31	01	Notes: Oct. 4 - Teacher Service Day (no students)				



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Units of Instruction

Unit 7 – Surface Area

Students make concrete connections to formulas for lateral and total surface area and apply those formulas to solve problems in mathematical and real-world situations.

Unit 8 – Volume

Students solve problems involving volume in mathematical and real-world situations.

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



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Units of Instruction

Unit 9 – Properties of Transformations

Students generalize the properties of orientation and congruence of translations, reflections, and rotations and differentiate between transformations that preserve congruence.

2021		December				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	01 • Extend • Review • Assess • Reteach	02 03 Unit 9 (10 45-min. class periods)		04
05	06 Unit 9 (10 45-min. class periods)	07	08	09	10	11
12	13 Unit 9 (10 45-min. class periods)	14	15	16 • Extend • Review • Assess • Reteach	17	18
19	20 21 Enrichment Opportunities		22 23 24 Winter Break		25	
26	27 28 Winter Break		29	30	31	01
02	03	Notes: Dec. 20-31 - Winter Break				



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Units of Instruction

Unit 10 – Similarity and Scale Factor

Students compare and contrast the attributes of similar shapes.

Unit 11 – Dilations

Students compare and contrast the attributes of a figure and its image under a dilation. They also model and analyze the effect dilation has on the area and perimeter of two-dimensional figures.

Unit 12 – Functions

Students identify functional relationships from multiple representations while distinguishing between proportional and non-proportional situations.

2022		January				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02	03 Unit 10 (8 45-min. class periods)	04	05	06	07	08
09	10 Unit 10 (8 45-min. class periods)	11	12	13 • Extend • Review • Assess • Reteach	14	15 END OF CYCLE 3
16	17 Martin Luther King, Jr. Day	18 Teacher Prep Day (no students)	19 Unit 11 (6 45-min. class periods)	20	21	22
23	24 Unit 11 (6 45-min. class periods)	25	26	27 • Extend • Review • Assess • Reteach	28	29
30	31 Unit 12 (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 12 – Functions

Students identify functional relationships from multiple representations while distinguishing between proportional and non-proportional situations.

Unit 13 – Interpreting Proportional and Nonproportional Relationships

Students use proportional and nonproportional relationships to recognize that the slope of a line is constant and use direct variation to write and solve real-world problems.

Unit 14 – Solving Systems by Graphing

Students use the intersections of graphed lines to determine the values of x and y that simultaneously satisfy the two linear equations.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01 Unit 12 (4 45-min. class periods)	02	03	04 • Extend • Review • Assess • Reteach	05
06	07 Unit 13 (12 45-min. class periods)	08	09	10	11	12
13	14 Unit 13 (12 45-min. class periods)	15 • Extend • Review • Assess • Reteach	16 Unit 13 (12 45-min. class periods)	17	18	19
20	21 Teacher Service Day (no students)	22 Unit 13 (12 45-min. class periods)	23	24	25 • Extend • Review • Assess • Reteach	26 END OF CYCLE 4
27	28 Unit 14 (2 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 – Solving Systems by Graphing
Students use the intersections of graphed lines to determine the values of x and y that simultaneously satisfy the two linear equations.

Unit 15 – Scatterplots and Trend Lines
Students construct and describe scatterplots, use trend lines to fit lines to data and analyze linear relationships to make predictions.

Unit 16 – Data
Students use bivariate sets of data to determine the mean absolute deviation and analyze linear relationships to make predictions.

Unit 17 – Readiness and Supporting Standards Review
Students use appropriate problem-solving strategies and skills to review relevant Readiness and Supporting Standards (based on individual student diagnostic data).

2022	March					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 Unit 14 (2 45-min. class periods)	02 • Extend • Review • Assess • Reteach	03 Unit 15 (4 45-min. class periods)	04	05
06	07 Unit 15 (4 45-min. class periods)	08	09 • Extend • Review • Assess • Reteach	10 Unit 16 (4 45-min. class periods)	11	12
13	14	15	16	17	18	19
	Enrichment Opportunities			Spring Break		
20	21 Unit 16 (4 45-min. class periods)	22	23 • Extend • Review • Assess • Reteach	24	25 Unit 17 (13 45-min. class periods)	26
27	28 Chávez / Huerta Day	29 Unit 17 (13 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 17 – Readiness and Supporting Standards Review

Students use appropriate problem-solving strategies and skills to review relevant Readiness and Supporting Standards (based on individual student diagnostic data).

Unit 18 – Bridge to Algebra 1

Students reinforce their understanding of proportional and non-proportional relationships involving slope, solve real-world problems and justify solutions.

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



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Units of Instruction

Unit 18 – Bridge to Algebra 1

Students reinforce their understanding of proportional and non-proportional relationships involving slope, solve real-world problems and justify solutions.

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 Unit 18 (25 45-min. class periods)	03	04	05	06	07
08	09 • Extend • Review • Assess • Reteach	10	11	12	13	14
15	16 Unit 18 (25 45-min. class periods)	17	18	19	20	21
22	23 Unit 18 (25 45-min. class periods)	24	25	26	27	28
29	30 Memorial Day	31 Unit 18 (25 45-min. class periods)	01	02	03	04
05	06	Notes: May 9-13 STAAR Testing May 30 - Memorial Day				



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Units of Instruction

Unit 18 – Bridge to Algebra 1

Students reinforce their understanding of proportional and non-proportional relationships involving slope, solve real-world problems and justify solutions.

2022		June				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 Unit 18 (25 45-min. class periods)	02	03	04
05	06 Unit 18 (25 45-min. class periods)	07 • Extend • Review • Assess • Reteach	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)				