



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Mathematics – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – Rational Numbers and Operations
Students categorize and organize numbers in sets and subsets using visual representations. They also investigate and utilize various problem-solving processes to extend previous experiences involving numeric relationships involving addition, subtraction, multiplication and division of rational numbers in a context of real-world situations.

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 (14 45-min. class periods)					
29	30	31	01	02	03	04
	<ul style="list-style-type: none"> • Extend • Review • Assess • Reteach 					
05	06	Notes: Aug. 16-20 - Teacher Service Days (no students)				



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Units of Instruction

Unit 1 – Rational Numbers and Operations

Students categorize and organize numbers in sets and subsets using visual representations. They also investigate and utilize various problem-solving processes to extend previous experiences involving numeric relationships involving addition, subtraction, multiplication and division of rational numbers in a context of real-world situations.

Unit 2 – Equations and Inequalities

Students represent, model, write, and solve two-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 Unit 1 (14 45-min. class periods)	02	03	04
05	06 Labor Day	07 • Extend • Review • Assess • Reteach	08 Unit 1 (14 45-min. class periods)	09	10	11
12	13 Unit 1 (14 45-min. class periods)	14	15	16 Fall Holiday	17 Teacher Service Day (no students)	18
19	20 Unit 2 (12 45-min. class periods)	21	22	23	24	25
26	27 • Extend • Review • Assess • Reteach	28 Unit 2 (12 45-min. class periods)	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 2 – Equations and Inequalities

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

Unit 3 – Percent Applications

Students solve problems involving ratios, rates, and percents. They also calculate and compare simple and compound interest earnings as well as calculate sales tax and income tax.

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 (12 45-min. class periods)	06	07	08	09
10	• Extend • Review • Assess • Reteach	12 Unit 3 (10 45-min. class periods)	13	14	15	16
17	• Extend • Review • Assess • Reteach	19	20 Unit 3 (10 45-min. class periods)	21	22	23
24	25 Unit 3 (10 45-min. class periods)	26	27	28 • Extend • Review • Assess • Reteach	29	30
31	01	Notes: Oct. 4 - Teacher Service Day (no students)				

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Units of Instruction

Unit 4 – Budgeting

Students identify the components of a personal budget, as well as create and organize a financial assets and liabilities record.

Unit 5 – Ratios and Rates

Students solve application problems involving proportional relationships such as unit rate and conversions between measurement systems.

Unit 6 – Rate of Change

Students represent constant rates of change in mathematical and real-world problems using multiple representation and determine constant of proportionality.

Unit 7 – Linear Relationships

Students represent linear relationships using multiple representations that simplify to the form $y = mx + b$.

2021	November					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	01 Unit 4 (4 45-min. class periods)	02	03 • Extend • Review • Assess • Reteach	04 Unit 4 (4 45-min. class periods)	05	06
07	08 Unit 5 (4 45-min. class periods)	09	10	11	12 • Extend • Review • Assess • Reteach	13 END OF CYCLE 2
14	15 Unit 6 (4 45-min. class periods)	16	17	18	19 • Extend • Review • Assess • Reteach	20
21	22	23	24	25	26	27
Thanksgiving						
28	29 Unit 7 (8 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 7 – Linear Relationships

Students represent linear relationships using multiple representations that simplify to the form $y = mx + b$.

Unit 8 – Similar Figures and Scale

Drawings
Students generalize the critical attributes of similarity, including ratios within and between similar shapes. They also solve real-world problems involving similarity.

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

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2021-2022 Pacing Calendar

Units of Instruction

Unit 8 – Similar Figures and Scale

Drawings
Students generalize the critical attributes of similarity, including ratios within and between similar shapes. They also solve real-world problems involving similarity.

Unit 9 – Angle Relationships

Students write and solve equations using geometric concepts, including the sum of the angles in a triangle, and angle relationships.

Unit 10 – Circles and Composite Figures

Students describe the relationship between the circumference and diameter of a circle. They use models to determine the circumference and area of circles and connect the models to the actual formulas. They also solve problems involving composite figures.

2022	January					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02	03 • Extend • Review • Assess • Reteach	04 Unit 8 (6 45-min. class periods)	05	06 Unit 9 (4 45-min. class periods)	07	08
09	10 Unit 9 (4 45-min. class periods)	11	12 • Extend • Review • Assess • Reteach	13 Unit 10 (8 45-min. class periods)	14	15 END OF CYCLE 3
16	17 Martin Luther King, Jr. Day	18 Teacher Prep Day (no students)	19 • Extend • Review • Assess • Reteach	20 Unit 10 (8 45-min. class periods)	21	22
23	24 • Extend • Review • Assess • Reteach	25 Unit 10 (8 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 – Surface Area: Prisms and Pyramids

Students determine the relationship between prisms and pyramids and calculate the surface area of those solids.

Unit 12 – Volume: Prisms and Pyramids

Students determine the relationship between prisms and pyramids and calculate the volume of those solids.

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



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Units of Instruction

Unit 13 – Probability

Students construct sample spaces for real-world events then determine the experimental and/or theoretical probability of those events. They also make decisions and predictions using experimental and/or theoretical data for simple and compound events.

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

Unit 13 – Probability

Students construct sample spaces for real-world events then determine the experimental and/or theoretical probability of those events. They also make decisions and predictions using experimental and/or theoretical data for simple and compound events.

Unit 14 – Data Analysis

Students use graphical representations to solve problems. They also represent and compare numeric data using dot plots or box plots.

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



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Units of Instruction

Unit 15 – 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 16 – Bridge to Grade 8

This unit is designed to make connections between current standards and standards of subsequent courses. Students extend their knowledge of graphing proportional relationships, interpreting the unit rate as the slope of the line that models the relationship from a table or graph.

They also determine the rate of change or slope and y-intercept in mathematical and real-world problems with or without the use of graphing calculator.

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

Unit 16 – Bridge to Grade 8

This unit is designed to make connections between current standards and standards of subsequent courses. Students extend their knowledge of graphing proportional relationships, interpreting the unit rate as the slope of the line that models the relationship from a table or graph.

They also determine the rate of change or slope and y-intercept in mathematical and real-world problems with or without the use of graphing calculator.

2022		June				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 Unit 16 (16 45-min. class periods)	02	03	04
05	06 Unit 16 (16 45-min. class periods)	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)				