

Mathematics – Grade 7 Pre-AP® / Honors

2021-2022 Pacing Calendar


Units of Instruction

Unit 1 – Personal Financial Literacy

Students apply financial literacy concepts to calculate personal budget items such as savings, taxes, and interest earnings.

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.

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 (4 45-min. class periods)				
29	30	31	01	02	03	04
	• Extend • Review • Assess • Reteach	Unit 2 (4 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 of multiplication over addition, 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 Unit 2 (4 45-min. class periods)	02	03	04
05	06 Labor Day	07 • Extend • Review • Assess • Reteach	08 Unit 3 (6 45-min. class periods)	09	10	11
12	13 Unit 3 (6 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.

Unit 7 – Composite Figures and Surface Area

Students determine the area of composite figures and make concrete connections to formulas for lateral and total surface area as well as apply those formulas to solve problems in mathematical and real-world situations.

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 (8 45-min. class periods)	06	07	08	09
10	11 Unit 5 (8 45-min. class periods)	12	13	14 • Extend • Review • Assess • Reteach	15 • Extend • Review • Assess • Reteach	16
17	18 • Extend • Review • Assess • Reteach	19 Unit 6 (6 45-min. class periods)	20	21	22	23
24	25 Unit 6 (6 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 – Composite Figures and Surface Area
Students determine the area of composite figures and make concrete connections to formulas for lateral and total surface area as well as 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 • Extend • Review • Assess • Reteach	06
07	08 Unit 7 (8 45-min. class periods)	09	10	11 • Extend • Review • Assess • Reteach	12	13 END OF CYCLE 2
14	15 Unit 8 (6 45-min. class periods)	16	17	18	19 • Extend • Review • Assess • Reteach	20
21	Thanksgiving					27
28	29 Unit 8 (6 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 9 – Properties of Transformations
Students generalize the properties of orientation and congruence of translations, reflections, and rotations and differentiate between transformations that preserve congruence. Special investigations with algebraic representations should be included in a way that prepares students for transformations of functions.

Unit 10 – Ratios and Rates
Students calculate unit rates and solve real-world problems such as unit conversions or problems involving percent increase and percent decrease.

2021		December				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	01 • Extend • Review • Assess • Reteach	02 Unit 9 (6 45-min. class periods)	03	04
05	06 Unit 9 (6 45-min. class periods)	07	08	09	10 • Extend • Review • Assess • Reteach	11
12	13 Unit 10 (6 45-min. class periods)	14	15	16	17 • Extend • Review • Assess • Reteach	18
19	20 Enrichment Opportunities	21	22	23	24 Winter Break	25
26	27	28	29	30	31 Winter Break	01
02	03	Notes: Dec. 20-31 - Winter Break				

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Units of Instruction

Unit 10 – Ratios and Rates

Students calculate unit rates and solve real-world problems such as unit conversions or problems involving percent increase and percent decrease.

Unit 11 – Similarity and Scale Factor

Students compare the attributes of similar shapes and use the ratios to solve real-world problems.

Unit 12 – Dilations

Students compare 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 13 – Functions

Students identify functional relationships from multiple representations while distinguishing between proportional and non-proportional situations. Students use the constant of proportionality or rate of change to identify equations that model proportional or non-proportional relationships.

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

Students identify functional relationships from multiple representations while distinguishing between proportional and non-proportional situations. Students use the constant of proportionality or rate of change to identify equations that model proportional or non-proportional relationships.

Unit 14 – Writing Linear Equations

Students write linear equations from multiple representations.

Unit 15 – Solving Systems with 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 13 (6 45-min. class periods)	02	03	04	05
06	07 • Extend • Review • Assess • Reteach	08	09 Unit 14 (10 45-min. class periods)	10	11	12
13	14 Unit 14 (10 45-min. class periods)	15	16	17	18	19
20	21 Teacher Service Day (no students)	22 Unit 14 (10 45-min. class periods)	23	24 • Extend • Review • Assess • Reteach	25	26 END OF CYCLE 4
27	28 Unit 15 (6 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 15 – Solving Systems with Graphing
Students use the intersections of graphed lines to determine the values of x and y that simultaneously satisfy the two linear equations.

Unit 16 – Data
Students compare populations based on numeric data using dot plots or box plots. They compare shapes, centers, and spreads.

Unit 17 – Probability
Students solve problems using qualitative and quantitative predictions and determine experimental and theoretical probabilities.

2022		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 Unit 15 (6 45-min. class periods)	02	03	04	05
06	07 Unit 15 (6 45-min. class periods)	08 • Extend • Review • Assess • Reteach	09	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 Unit 17 (10 45-min. class periods)	25	26
27	28 Chávez / Huerta Day	29 Unit 17 (10 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 – Probability

Students solve problems using qualitative and quantitative predictions and determine experimental and theoretical probabilities.

Unit 18 – 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 • Extend • Review • Assess • Reteach	02
03	04 Unit 17 (10 45-min. class periods)	05	06	07	08	09
10	11 • Extend • Review • Assess • Reteach	12	13 Unit 18 (12 45-min. class periods)	14	15 Spring Holiday	16
17	18 Unit 18 (12 45-min. class periods)	19	20	21	22 • Extend • Review • Assess • Reteach	23 END OF CYCLE 5
24	25 Unit 18 (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 18 – 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 19 – Scatterplots and Trend Lines

Students construct and describe scatterplots. They use trend lines to approximate linear relationships and make predictions from linear models. Students also determine the mean absolute deviation to measure average distance data.

Unit 20 – Bridge to Algebra 1

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

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 Unit 18 (12 45-min. class periods)	03	04	05 • Extend • Review • Assess • Reteach	06 Unit 19 (6 45-min. class periods)	07
08	09 • Extend • Review • Assess • Reteach	STAAR EOC Assessments				14
15	16 Unit 19 (6 45-min. class periods)	17	18	19	20	21
22	23 • Extend • Review • Assess • Reteach	24 Unit 20 (6 45-min. class periods)	25	26	27	28
29	30 Memorial Day	31 Unit 20 (6 45-min. class periods)	01	02	03	04
05	06	Notes: May 10-13 - STAAR Assessments May 30 - Memorial Day				

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Units of Instruction

Unit 20 – Bridge to Algebra 1

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

Unit 21 – 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.

2022		June				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 Unit 20 (6 45-min. class periods)	02 Unit 21 (4 45-min. class periods)	03	04
05	06 Unit 21 (4 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)				