

Mathematics – Grade 7 Pre-AP®

2018-2019 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.

BOY Placeholder – August 28-29, 2018

Date may be shifted based on school schedule

2018		August				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01	02	03	04
05	06	07	08	09	10	11
12	13	14	15	16	17	18
Teacher Service Days (no students)						
19	20	21	22	23	24	25
Teacher Service Days (no students)					Teacher Prep Day (no students)	
26	27 	28	29	30 Unit 1 (4 45-minute class periods)	31	01
02	03	Notes: Aug. 13-23 - Teacher Service Days (no students) Aug. 24 - Teacher Preparation Day (no students) Aug. 28-29 - BOY Placeholder				



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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 sets 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 mathe

2018		September				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02	03 Labor Day	04 Unit 1 (4 45-minute class periods)	05	06 • Extend • Review • Assess • Reteach	07 Unit 2 (4 45-minute class periods)	08
09	10 Teacher Service Day (no students)	11 Unit 2 (4 45-minute class periods)	12	13	14 Unit 3 (6 45-minute class periods)	15
16	17 Unit 3 (6 45-minute class periods)	18	19	20	21 Early Dismissal / Staff Development	22
23	24 Unit 3 (6 45-minute class periods)	25 Unit 4 (8 45-minute class periods)	26	27	28	29
30	01	Notes: Sept. 3 - Labor Day Sept. 10 - Teacher Service Day (no students) Sept. 21 - Early Dismissal / Staff Development				



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Units of Instruction

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.

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 apply those formulas to solve problems in mathematical and real-world situations.

2018	October					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	01 Unit 4 (8 45-minute class periods)	02	03	04	05 • Extend • Review • Assess • Reteach	06 END OF CYCLE 1
07	08 Unit 5 (6 45-minute class periods)	09	10	11	12	13
14	15 Unit 5 (6 45-minute class periods)	16 • Extend • Review • Assess • Reteach	17 Unit 6 (6 45-minute class periods)	18	19 Early Dismissal / Staff Development	20
21	22 Unit 6 (6 45-minute class periods)	23	24	25	26 • Extend • Review • Assess • Reteach	27
28	29 Unit 7 (8 45-minute class periods)	30	31	01	02	03
04	05	Notes: Oct. 19 - Early Dismissal / Staff Development Oct. 29-Nov. 2 - Snapshot 1				

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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 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.

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.

2018		November				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	31	01 Unit 7 (8 45-minute class periods)	02	03
04	05 Unit 7 (8 45-minute class periods)	06	07	08 • Extend • Review • Assess • Reteach	09 Early Dismissal / Staff Development	10 END OF CYCLE 2
11	12 Unit 8 (4 45-minute class periods)	13	14	15	16 • Extend • Review • Assess • Reteach	17
18	19	20	21	22	23	24
Thanksgiving						
25	26 Unit 9 (6 45-minute class periods)	27	28	29	30	01
02	03	Notes: Oct. 29-Nov. 2 - Snapshot 1 Nov. 9 - Early Dismissal / Staff Development Nov. 19-23 - 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.

Unit 11 – Similarity and Scale Factor

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

2018	December					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
25	26	27	28	29	30	01
02	03 Unit 9 (6 45-minute class periods)	04	05 • Extend • Review • Assess • Reteach	06 Unit 10 (4 45-minute class periods)	07	08
09	10 Unit 10 (4 45-minute class periods)	11	12 Unit 11 (6 45-minute class periods)	13	14	15
16	17 Unit 11 (6 45-minute class periods)	18	19	20 • Extend • Review • Assess • Reteach	21 Teacher Prep Day (no students)	22 END OF CYCLE 3
23	24	25	26	27	28	29
Winter Break						
30	31 Winter Break	Notes: Dec. 3-20 - District-Level Assessment (DLA) Window Dec. 21 - Teacher Preparation Day (no students) Dec. 24 - Jan 4 - Winter Break				



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Units of Instruction

MOY Placeholder – January 7-8, 2019

Date may be shifted based on school schedule

Unit 12 – 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 13 – Functions

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

2019		January				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01	02	03	04	05
		Winter Break				
06	07	08	09 Unit 12 (6 45-minute class periods)	10	11	12
13	14 Unit 12 (6 45-minute class periods)	15	16	17 • Extend • Review • Assess • Reteach	18 Early Dismissal / Staff Development	19
20	21 Martin Luther King, Jr. Day	22 Unit 13 (6 45-minute class periods)	23	24	25	26
27	28 Unit 13 (6 45-minute class periods)	29	30 • Extend • Review • Assess • Reteach	31 Unit 14 (10 45-minute class periods)	01	02
03	04	Notes: Dec. 24 - Jan 4 - Winter Break Jan. 7-8 - MOY Placeholder Jan. 18 - Early Dismissal / Staff Development Jan. 21 - Martin Luther King, Jr. Day Jan. 28-Feb 1 - Snapshot 2				

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Units of Instruction

Unit 14 – Writing Linear Equations

Students write linear equations from multiple representations.

Unit 15 – 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 16 – Data

Students compare populations based on numeric data using dot plots and box plots. They compare shapes, centers, and spreads.

2019		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	31	01 Unit 14 (10 45-minute class periods)	02
03	04 Unit 14 (10 45-minute class periods)	05	06	07	08	09
10	11 Unit 14 (10 45-minute class periods)	12	13	14 • Extend • Review • Assess • Reteach	15 Early Dismissal / Staff Development	16 END OF CYCLE 4
17	18 Unit 15 (4 45-minute class periods)	19	20	21	22 • Extend • Review • Assess • Reteach	23
24	25 Unit 16 (8 45-minute class periods)	26	27	28	01	02
03	04	Notes: Jan. 28-Feb. 1 - Snapshot 2 Feb. 15 - Early Dismissal / Staff Development Feb. 25-Mar. 1 - STAAR Released				

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Units of Instruction

Unit 16 – Data

Students compare populations based on numeric data using dot plots and 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.

2019		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
24	25	26	27	28	01 Unit 16 (8 45-minute class periods)	02
03	04 Unit 16 (8 45-minute class periods)	05	06	07 • Extend • Review • Assess • Reteach	08	09
10	11	12	13	14	15	16
Spring Break						
17	18 • Extend • Review • Assess • Reteach	19 Unit 17 (12 45-minute class periods)	20	21	22	23
24	25 Unit 17 (12 45-minute class periods)	26	27	28	29	30
31	01	Notes: Feb. 25-Mar. 1 - STAAR Released Grade 7 Writing Mar. 11-15 - Spring Break Mar. 25-29 - STAAR Released Grade 7 Mathematics				

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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).

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.

2019		April				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	01 Unit 17 (12 45-minute class periods)	02	03	04 • Extend • Review • Assess • Reteach	05	06 END OF CYCLE 5
07	08 Unit 18 (12 45-minute class periods)	09	10	11	12	13
14	15 Unit 18 (12 45-minute class periods)	16	17	18	19 Spring Holiday	20
21	22 Unit 18 (12 45-minute class periods)	23	24	25	26 Unit 19 (6 45-minute class periods)	27
28	29 Unit 19 (6 45-minute class periods)	30	01	02	03	04
05	06	Notes: Apr. 9 - STAAR Grade 7 Writing Apr. 19 - Spring Holiday				

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Units of Instruction

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.

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.

2019		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	01 Unit 19 (6 45-minute class periods)	02	03	04
05	06 • Extend • Review • Assess • Reteach	07 Unit 20 (6 45-minute class periods)	08	09	10	11
12	13	14	15	16	17	18
19	20 Unit 20 (6 45-minute class periods)	21	22 Unit 21 (6 45-minute class periods)	23	24	25
26	27 Memorial Day	28 Unit 21 (6 45-minute class periods)	29	30	31 	01
02	03	Notes: May 13-17 - STAAR Testing May 27 - Memorial Day				



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2019		June				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01 END OF CYCLE 6
02	03 Teacher Prep Day (no students)	04	05	06	07	08
09	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	01	Notes: June 3 - Teacher Preparation Day (no students)				