

Mathematics - Grade 7

2018-2019 Pacing Calendar


Units of Instruction

BOY Placeholder – August 28-29, 2018

Date may be shifted based on school schedule

Unit 1 – Budgeting

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

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	31	01
				Unit 1 (4 45-minute class periods)		
02	03	Notes: Aug. 13-23 - Teacher Service Days (no students) Aug. 24 - Teacher Preparation Day (no students) Aug. 28-29 - BOY Placeholder				



Secondary Curriculum and Development

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Units of Instruction

Unit 1 – Budgeting

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

Unit 2 – Rational Numbers and Operations

Students categorize and organize numbers in sets and subsets using visual representations. They 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.

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	08
09	10 Teacher Service Day (no students)	11 Unit 2 (16 45-minute class periods)	12	13	14	15
16	17 Unit 2 (16 45-minute class periods)	18	19	20	21 Early Dismissal / Staff Development	22
23	24 Unit 2 (16 45-minute class periods)	25	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 2 – Rational Numbers and Operations
Students categorize and organize numbers in sets and subsets using visual representations. They 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 3 – Equations and Inequalities
Students represent, write, model and solve two-step equations and inequalities in application situations using mathematical properties and operations.

Unit 4 – Percent Applications
Students solve problems involving ratios, rates, and percents. They also calculate and compare simple and compound interest earnings. They calculate sales tax and income tax.

2018		October				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	01 Unit 2 (16 45-minute class periods)	02	03	04 • Extend • Review • Assess • Reteach	05	06 END OF CYCLE 1
07	08 Unit 3 (12 45-minute class periods)	09	10	11	12	13
14	15 Unit 3 (12 45-minute class periods)	16	17	18	19 Early Dismissal / Staff Development	20
21	22 Unit 3 (12 45-minute class periods)	23	24	25 Unit 4 (10 45-minute class periods)	26	27
28	29 Unit 4 (10 45-minute class periods)	30	31	01	02	03
04	05	Notes: Oct. 19 - Early Dismissal / Staff Development				



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Units of Instruction

Unit 4 – Percent Applications

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

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.

2018		November				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	31	01 Unit 4 (10 45-minute class periods)	02	03
04	05 Unit 4 (10 45-minute class periods)	06	07	08 • Extend • Review • Assess • Reteach	09 Early Dismissal / Staff Development	10 END OF CYCLE 2
11	12 Unit 5 (4 45-minute class periods)	13	14	15	16 • Extend • Review • Assess • Reteach	17
18	19	20	21	22	23	24
Thanksgiving						
25	26 • Extend • Review • Assess • Reteach	27 Unit 6 (4 45-minute class periods)	28	29	30	01
02	03	Notes: Nov. 9 - Early Dismissal / Staff Development Nov. 19-23 - Thanksgiving Break				



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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.

2018		December				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
25	26	27	28	29	30	01
02	03 • Extend • Review • Assess • Reteach	04 Unit 7 (4 45-minute class periods)	05	06	07	08
09	10 • Extend • Review • Assess • Reteach	11 Unit 8 (6 45-minute class periods)	12	13	14	15
16	17 Unit 8 (6 45-minute class periods)	18	19 • Extend • Review • Assess • Reteach	20	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. 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 9 – Angle Relationships

Students write and solve equations using geometry 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 solve problems involving composite figures.

Unit 11 – Surface Area - Prisms and Pyramids

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

2019		January				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01	02	03	04	05
		Winter Break				
06	07	08	09	10	11	12
			Unit 9 (4 45-minute class periods)			
13	14	15	16	17	18	19
	Unit 9 (4 45-minute class periods)	Unit 10 (8 45-minute class periods)			Early Dismissal / Staff Development	
20	21	22	23	24	25	26
	Martin Luther King, Jr. Day	Unit 10 (8 45-minute class periods)				
27	28	29	30	31	01	02
	Unit 10 (8 45-minute class periods)	• Extend • Review • Assess • Reteach	Unit 11 (10 45-minute class periods)			
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				



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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.

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

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Units of Instruction

Unit 13 – Probability

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

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

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Units of Instruction

Unit 13 – Probability

Students construct sample spaces for real-world events; determine the experimental and/or theoretical probability of those events. They 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).

2019	April					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	01 Unit 13 (16 45-minute class periods)	02	03	04 • Extend • Review • Assess • Reteach	05	06 END OF CYCLE 5
07	08 • Extend • Review • Assess • Reteach	09	10 Unit 14 (8 45-minute class periods)	11	12	13
14	15 Unit 14 (8 45-minute class periods)	16	17	18	19 Spring Holiday	20
21	22 Unit 14 (8 45-minute class periods)	23 • Extend • Review • Assess • Reteach	24 Unit 15 (10 45-minute class periods)	25	26	27
28	29 Unit 15 (10 45-minute class periods)	30	01	02	03	04
05	06	Notes: Apr. 9 - Grade 7 STAAR Writing Apr. 19 - 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 to determine the rate of change or slope and y-intercept in mathematical and real world problems with or without the use of a graphing calculator.

2019		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	01 Unit 15 (10 45-minute class periods)	02	03	04
05	06 Unit 15 (10 45-minute class periods)	07	08	09	10 • Extend • Review • Assess • Reteach	11
12	13	14	15	16	17 • Extend • Review • Assess • Reteach	18
19	20 Unit 16 (8 45-minute class periods)	21	22	23	24	25
26	27 Memorial Day	28 Unit 16 (8 45-minute class periods)	29	30	31 • Extend • Review • Assess • Reteach	01
02	03	Notes: May 13-16 - STAAR TEST 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)						