



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Mathematics – Geometry

2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – Geometric Foundations with Algebraic Connections

Students compare geometric relationships, explore geometry topics, and verify geometric conjectures.

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 – Conditional Statements

Students identify and determine the validity of conditional statements.

Unit 3 – Parallel and Perpendicular Lines

Students analyze relationships among lines that are parallel, perpendicular, or skew.

Unit 4 – Equations of Parallel and Perpendicular Lines

Students apply properties of linear equations to parallel and perpendicular lines.

Unit 5 – Triangle Inequality

Students verify the triangle inequality theorem and apply the theorem to solve problems.

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 Unit 3 (4 45-min. class periods)	10	11
12	13 Unit 3 (4 45-min. class periods)	14	15 • Extend • Review • Assess • Reteach	16 Fall Holiday	17 Teacher Service Day (no students)	18
19	20 Unit 4 (4 45-min. class periods)	21	22	23	24 • Extend • Review • Assess • Reteach	25
26	27 Unit 5 (4 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 6 – Spherical and Euclidean Geometry

Students compare geometric relationships between Euclidean and spherical geometries.

Unit 7 – Rigid Transformations

Students apply transformations to various geometric figures and make conjectures about coordinate notation after a transformation.

Unit 8 – Generalizations About Triangles

Students apply and make conjectures about triangle properties and triangle congruence.

Unit 9 – Corresponding Parts of Congruent Triangles

Students apply the definition of congruence to identify congruent triangles and their corresponding sides and angles.

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 6 (2 45-min. class periods)	06	07 Unit 7 (4 45-min. class periods)	08	09
10	11 Unit 7 (4 45-min. class periods)	12	13 • Extend • Review • Assess • Reteach	14 Unit 8 (4 45-min. class periods)	15	16
17	18 Unit 8 (4 45-min. class periods)	19	20 • Extend • Review • Assess • Reteach	21 Unit 9 (6 45-min. class periods)	22	23
24	25 Unit 9 (6 45-min. class periods)	26	27	28	29 • Extend • Review • Assess • Reteach	30
31	01	Notes: Oct. 4 - Teacher Service Day (no students)				



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Units of Instruction

Unit 10 – Triangle Proofs
Students use reasoning and proofs in applying properties of triangles.

Unit 11 – Relationships Within Triangles
Students perform constructions within the triangle in order to analyze their attributes.

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

Mathematics – Geometry

2021-2022 Pacing Calendar

Units of Instruction

Unit 12 – Non-Rigid Transformations
Students apply transformations to various geometric figures and make conjectures about coordinate notation after a transformation.

Unit 13 – Similarity
Students solve geometric problems involving similarity.

2021		December				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28	29	30	01 Unit 12 (4 45-min. class periods)	02	03 • Extend • Review • Assess • Reteach	04
05	06 Unit 13 (8 45-min. class periods)	07	08	09	10	11
12	13 Unit 13 (8 45-min. class periods)	14	15	16 • Extend • Review • Assess • Reteach	17 Unit 14 (6 45-min. class periods)	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				
				31		01



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Units of Instruction

Unit 14 – Right Triangles and Trigonometry

Students apply the Pythagorean Theorem to real-world situations, develop a pattern for special right triangles, and apply properties of triangles to the study of right-triangle trigonometry.

Unit 15 – Circle Measurement

Students apply properties of circles to determine the area of a sector and the length of an arc.

Unit 16 – Circles in the Coordinate Plane

Students write the equation of a circle and graph the circle in the coordinate plane.

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

Mathematics – Geometry

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Units of Instruction

Unit 16 – Circles in the Coordinate Plane
Students write the equation of a circle and graph the circle in the coordinate plane.

Unit 17 – Circle Theorems
Students analyze and apply properties of tangents to a circle and the angles and polygons formed within.

Unit 18 – Polygonal Angle Sum Theorem
Students determine the sum of interior angle measures of polygons.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01 Unit 16 (6 45-min. class periods)	02	03	04	05
06	07 Unit 16 (6 45-min. class periods)	08 • Extend • Review • Assess • Reteach	09 Unit 17 (10 45-min. class periods)	10	11	12
13	14 Unit 17 (10 45-min. class periods)	15	16	17	18	19
20	21 Teacher Service Day (no students)	22 Unit 17 (10 45-min. class periods)	23	24 • Extend • Review • Assess • Reteach	25	26 END OF CYCLE 4
27	28 Unit 18 (2 45-min. class periods)	01	02	03	04	05
06	07	Notes: Feb. 21 - Teacher Service Day (no students)				

Mathematics – Geometry

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Units of Instruction

Unit 18 – Polygonal Angle Sum Theorem

Students determine the sum of interior angle measures of polygons.

Unit 19 – Properties of Quadrilaterals

Students examine the properties of quadrilaterals and polygons using algebraic, concrete, and geometric methods.

Unit 20 – Area of Circles and Polygons

Students determine the area of circles and various polygons including area and perimeter of similar figures.

2022		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 Unit 18 (2 45-min. class periods)	02 • Extend • Review • Assess • Reteach	03 Unit 19 (8 45-min. class periods)	04	05
06	07 Unit 19 (8 45-min. class periods)	08	09	10	11	12
13	14	15	16	17	18	19
	Enrichment Opportunities			Spring Break		
20	21 Unit 19 (8 45-min. class periods)	22 • Extend • Review • Assess • Reteach	23	24 Unit 20 (6 45-min. class periods)	25	26
27	28 Chávez / Huerta Day	29 Unit 20 (6 45-min. class periods)	30	31	01	02
03	04	Notes: Mar. 14-18 - Spring Break Mar. 28 - César Chávez/Dolores Huerta Day				

Mathematics – Geometry

2021-2022 Pacing Calendar

Units of Instruction

Unit 20 – Area of Circles and Polygons

Students determine the area of circles and various polygons including area and perimeter of similar figures.

Unit 21 – Trigonometry and Area

Students use trigonometry to determine the area of regular polygons.

Unit 22 – Surface Area

Students build and deconstruct three dimensional figures, calculate their total and lateral surface areas, and determine how changes in the linear dimensions of a shape affect its surface area.

2022		April				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	31	01 Unit 20 (6 45-min. class periods)	02
03	04 • Extend • Review • Assess • Reteach	05	06 Unit 21 (6 45-min. class periods)	07	08	09
10	11 Unit 21 (6 45-min. class periods)	12	13	14 • Extend • Review • Assess • Reteach	15 Spring Holiday	16
17	18 • Extend • Review • Assess • Reteach	19 Unit 22 (6 45-min. class periods)	20	21	22	23
24	25 Unit 22 (6 45-min. class periods)	26	27 • Extend • Review • Assess • Reteach	28 Unit 23 (6 45-min. class periods)	29	30
01	02	Notes: Apr. 15 - Spring Holiday				

**END OF
CYCLE 5**



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Units of Instruction

Unit 23 – Volume

Students calculate the volume of a figure and determine how changes in the linear dimensions of a shape affect its volume.

Unit 24– Experimental and Theoretical Probability

Students determine probabilities based on area to solve contextual problems.

Unit 25 – Permutations and Combinations

Students solve contextual problems using permutations and combinations.

Unit 26 – Compound Probability

Students compute the probability of two events occurring together with or without replacement and apply independence in contextual problems.

Unit 27 – Conditional Probability

Students solve contextual problems involving conditional probability.

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 Unit 23 (6 45-min. class periods)	03	04	05	06 • Extend • Review • Assess • Reteach	07
08	09 Unit 24 (4 45-min. class periods)	10	11	12	13 • Extend • Review • Assess • Reteach	14
15	16 Unit 25 (4 45-min. class periods)	17	18	19	20 • Extend • Review • Assess • Reteach	21
22	23 Unit 26 (2 45-min. class periods)	24	25 • Extend • Review • Assess • Reteach	26 Unit 27 (2 45-min. class periods)	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

2022 June

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 • Extend • Review • Assess • Reteach	02	03	04
05	06 • Extend • Review • Assess • Reteach	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)				