


Mathematics – Precalculus

2021-2022 Pacing Calendar

Units of Instruction

Unit 1 – Values of Trigonometric Functions
Students determine the relationships among the unit circle, trigonometric functions, and trigonometric values when given measurements in degrees, minutes, and seconds or radians based on the unit circle.

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 Unit 1 (8 45-min. class periods)	25	26	27	28
29	30 Unit 1 (8 45-min. class periods)	31	01	02	03	04
05	06	Notes: Aug. 16-20 - Teacher Service Days (no students)				

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Units of Instruction

Unit 2 – Graphs and Properties of Trigonometric Functions

Students convert degrees to radians and use them to derive the six trigonometric functions, their graphs, and transformations.

Unit 3 – Inverse of the Trigonometric Functions

Students graphically, tabularly, and algebraically analyze the inverse of the trigonometric functions.

2021		September				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 Unit 1 (8 45-min. class periods)	02	03 • Extend • Review • Assess • Reteach	04
05	06 Labor Day	07 Unit 2 (10 45-min. class periods)	08	09	10	11
12	13 Unit 2 (10 45-min. class periods)	14	15	16 Fall Holiday	17 Teacher Service Day (no students)	18
19	20 Unit 2 (10 45-min. class periods)	21	22	23 • Extend • Review • Assess • Reteach	24	25
26	27 Unit 3 (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 4 – Trigonometric Identities

Students analyze and transform trigonometric functions and identities.

Unit 5 – Trigonometric Equations

Students analyze and solve trigonometric equations.

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 4 (8 45-min. class periods)	06	07	08	09
10	11 Unit 4 (8 45-min. class periods)	12	13	14	15 • Extend • Review • Assess • Reteach	16
17	18 Unit 5 (9 45-min. class periods)	19	20	21	22	23
24	25 Unit 5 (9 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 6 – Applications of Trigonometric Functions

Students apply and analyze trigonometric functions to solve real-world problems.

Unit 7 – Composition of Functions and Inverses

Students analyze the composition of functions, the inverse of a function, and the importance of the relationship between their respective domains and ranges.

Unit 8 – Attributes of Piecewise and Step Functions

Students analyze attributes of piecewise and step functions in relation to real-world situations.

2021		November				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	01 Unit 6 (7 45-min. class periods)	02	03	04	05 • Extend • Review • Assess • Reteach	06
07	08 Unit 6 (7 45-min. class periods)	09	10	11 • Extend • Review • Assess • Reteach	12	13 END OF CYCLE 2
14	15 Unit 7 (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 8 (8 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 8 – Attributes of Piecewise and Step Functions

Students analyze attributes of piecewise and step functions in relation to real-world situations.

Unit 9 – Polynomial and Power Functions in the Real World

Students analyze polynomial and power functions, their transformations using graphs, tables, and algebraic properties, and real-world situations.

2021		December					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
28	29	30	01 Unit 8 (8 45-min. class periods)	02	03	04	
05	06 Unit 8 (8 45-min. class periods)	07	08	09 • Extend • Review • Assess • Reteach	10	11	
12	13 Unit 9 (8 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	01	
			Winter Break				
02	03	Notes: Dec. 20-31 - Winter Break					

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Units of Instruction

Unit 9 – Polynomial and Power Functions in the Real World

Students analyze polynomial and power functions, their transformations using graphs, tables, and algebraic properties, and real-world situations.

Unit 10 – Rational Functions

Students analyze characteristics of rational functions through graphs, tables, and algebraic methods in real-world situations.

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

Students analyze attributes of exponential and logarithmic functions and equations to solve real-world problems.

Unit 12 – Arithmetic and Geometric Sequences and Series

Students apply and analyze real-world problems using geometric and arithmetic sequences and series.

Unit 13 – Binomial Theorem

Students use mathematical induction to prove formulas such as the Binomial Theorem.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01 Unit 11 (8 45-min. class periods)	02	03	04 • Extend • Review • Assess • Reteach	05
06	07 Unit 11 (8 45-min. class periods)	08	09	10	11	12
13	14 • Extend • Review • Assess • Reteach	15 Unit 12 (6 45-min. class periods)	16	17	18	19
20	21 Teacher Service Day (no students)	22 Unit 12 (6 45-min. class periods)	23	24 • Extend • Review • Assess • Reteach	25	26 END OF CYCLE 4
27	28 Unit 13 (4 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 13 – Binomial Theorem

Students use mathematical induction to prove formulas such as the Binomial Theorem.

Unit 14 – Conic Sections and Attributes of Ellipses and Hyperbola

Students explore and apply properties of conic sections with specific concentration on the properties of an ellipse and hyperbola to write their equations.

Unit 15 – Parametric Equations and Plane Curves

Students analyze parametric equations in real-world situations.

2022		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 Unit 13 (4 45-min. class periods)	02	03	04 • Extend • Review • Assess • Reteach	05
06	07 Unit 14 (10 45-min. class periods)	08	09	10	11 • Extend • Review • Assess • Reteach	12
13	14	15	16	17	18	19
	Enrichment Opportunities			Spring Break		
20	21 Unit 14 (10 45-min. class periods)	22	23	24	25	26
27	28 Chávez / Huerta Day	29 Unit 14 (10 45-min. class periods)	30 • Extend • Review • Assess • Reteach	31 Unit 15 (6 45-min. class periods)	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 15 – Parametric Equations and Plane Curves

Students analyze parametric equations in real-world situations.

Unit 16 – Polar Coordinates, Equations, and Graphs

Students explore the properties and relationships of the polar coordinate system and the Cartesian coordinate system. They represent complex numbers in polar form and use polar coordinates to graph and apply functions in real-world situations.

2022		April				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	31	01 Unit 15 (6 45-min. class periods)	02
03	04 Unit 15 (6 45-min. class periods)	05	06	07	08 • Extend • Review • Assess • Reteach	09
10	11 • Extend • Review • Assess • Reteach	12 Unit 16 (10 45-min. class periods)	13	14 • Extend • Review • Assess • Reteach	15 Spring Holiday	16
17	18 Unit 16 (10 45-min. class periods)	19	20	21	22 • Extend • Review • Assess • Reteach	23 END OF CYCLE 5
24	25 Unit 16 (10 45-min. class periods)	26	27	28	29 • Extend • Review • Assess • Reteach	30
01	02	Notes: Apr. 15 - Spring Holiday				

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Units of Instruction

Unit 17 – Vectors

Students explore two- and three-dimensional applications of vectors through dot products and cross products.





Unit 18 – Bridge to Calculus

Students are introduced to concept of limits and rate of change in data and real-world situations.

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 Unit 17 (8 45-min. class periods)	03	04	05	06 • Extend • Review • Assess • Reteach	07
08	09 Unit 17 (8 45-min. class periods)	10	11	12	13 • Extend • Review • Assess • Reteach	14
15	16 • Extend • Review • Assess • Reteach	17 Unit 18 (6 45-min. class periods)	18	19	20	21
22	23 Unit 18 (6 45-min. class periods)	24	25 • Extend • Review • Assess • Reteach	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

2022		June				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 • Extend • Review • Assess • Reteach	02  FINAL EXAMS	03  FINAL EXAMS	04
05	06  FINAL EXAMS	07  FINAL EXAMS	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)				