

SDC Pacing for Block Schedule

Suggested Time	Learning Objective	OER	Learning Objectives
The pacing guide is aligned with <i>Precalculus: An Investigation of Functions</i> chapter and section sequence.			
Day 1	Getting Started Orientation		
Chapter 1: Functions and Linear Functions			
Day 2	Functions and Function Notation; Domain and Range	Sections 1.1 and 1.2	3a,
Day 3	Rates of change; behavior of graphs	Section 1.3	3a,3c,6c,
Day 4	Operation and composition of functions	Section 1.4	3e,
Day 5	Transformation of functions	Section 1.5	3a,3b,
Day 6	Inverse Functions	Section 1.6	3a,3f,
Day 7	Linear functions and Equations/Inequalities	Section 2.1	1a,2a,2b,2c,3a,
Day 8	Graphs of linear functions; modeling with linear functions	Sections 2.1 and 2.3	1a,3a,3b,3c,6a,6c,6d,6e
Day 9	Absolute value functions and equations	Section 2.5	1a,1e,1f,2a,2b,2c,3a,3b,3c,3d,
Day 10	Review		
Day 11	Test 1		
Chapter 2: Polynomial and Rational Functions			
Day 12	Power and polynomial functions	Section 3.1	3a,
Day 13	Quadratic functions; quadratic equations; quadratic inequalities	Section 3.2 and supplement with outside resources to add practice problems	1a,1b,1f,1i,2a,2b,2c,3a,3b,3c,3d,
Day 14	Graphs of Polynomial Functions	Section 3.3	1c,1f,3a,3b,3c,3d,
Day 15	Factor and Remainder Theorem; Real Zeros of Polynomials	Sections 3.4 and 3.5	1a,1b,1c,1d,1f,
Day 16	Complex Zeros	Section 3.6	1a,1b,1c1d,1f,
Day 17	Polynomial Inequalities	Section 3.6 and supplement with outside resources to add practice problems	1a,1b,1c1d,1f,1i,2a,2b,2c,3a,3d,
Day 18	Rational functions and equations	Section 3.7 and supplement with outside resources to add practice problems	1a,1e,1f,1h,1i,2a,2b,2c,3b,3c,
	Rational functions and inequalities	Section 3.7 and supplement with outside resources to add practice problems	1a,1e,1f,1h,1i,2a,2b,2c,3a,3b,3c,
Day 20	Inverses and Radical Functions and Equations/Inequalities	Section 3.8	1e,1f,1h,1i,2a,2b,2c3a,3b,3c,
Day 21	Review		
Day 22	Test 2		
Chapter 3: Exponential and Logarithmic Functions			
Day 23	Exponential functions; graphs of exponential functions	Sections 4.1 and 4.2	1g,3a,3b,3c
Day 24	Logarithmic Functions	Section 4.3	1g,
Day 25	Logarithmic Properties	Section 4.4	1g,
Day 26	Graphs of Logarithmic functions	Section 4.5	1g,3a,3b,3c,
Day 27	Exponential and logarithmic models	Section 4.6	1g,3a,3b,3c,6a,6c,6d,6e
Day 28	Solving logarithmic equations and inequalities	supplement with outside resources to add practice problems	1a,1e,1f,1g,1i,2a,2b,2c,3a,6d,6e
Day 29	Solving logarithmic equations and inequalities	supplement with outside resources to add practice problems	1a,1e,1f,1g,1i,2a,2b,2c,3a,6d,6e
	Review		
Day 31	Test 3		
Chapter 4: Trigonometric Functions of Angles			
Day 32	Circles	Section 5.1	5d,5e,
Day 33	Angles in Standard Position, angles in degrees and radians, converting from degrees to radians and radians to degrees; coterminal angles	Section 5.2	4a,
Day 34	Arc length, area of a sector	Section 5.2 and supplement with outside resources to add practice problems	5f,
Day 35	Linear speed and angular speed	Section 5.2 and supplement with outside resources to add practice problems	6d,6e
Day 36	Unit Circle	Sections 5.3 and 5.4; supplement with outside resources to add practice	4a,

Day 37	Trigonometric Values of special angles on the unit circle (all six trig functions)	Sections 5.3 and 5.4; supplement with outside resources to add practice problems	4a,
Day 38	Right Triangle Trigonometry	Section 5.5	4a,5a,6b,6d,6e
Day 39	Review		
Day 40	Test 4		
Chapter 5: Periodic Functions			
Day 41	Graphing Sine and Cosine with varying amplitude, period, phase shifts, vertical shifts	Section 6.1 and supplement with outside resources to add practice problems	4b,6c
Day 42	Graphing Sine and cosine with varying amplitude, period, phase shifts, vertical shifts	Section 6.1 and supplement with outside resources to add practice problems	4b,6c,
Day 43	Graphing Secant, cosecant, tangent and cotangent functions	Section 6.2	4b,6c,
Day 44	Inverse Trig Functions and compositions of inverse trig functions	Section 6.3 and supplement with outside resources to add practice problems	4a,4d,
Day 45	Solving trig equations	Section 6.4 and supplement with outside resources to add practice problems	1f,1i,4a,4e,
Day 46	Solving trig equations	Section 6.4 and supplement with outside resources to add practice problems	1f,1i,4a,4e,
Day 47	Modeling with trigonometric equations	Section 6.5	1f,1i,4a,4b,6a,6c,6d,6e
Day 48	Review		
Day 49	Test 5		
Chapter 6: Trigonometric Equations and Identities			
Day 50	Basic trigonometric identities (including Pythagorean identities)	Section 7.1 and supplement with outside resources to add practice problems	4c,4d,4e,
Day 51	Basic trigonometric identities (including Pythagorean identities)	Section 7.1 and supplement with outside resources to add practice problems	4c,4d,4e,
Day 52	Solving Trig equations with identities	Section 7.1 and supplement with outside resources to add practice problems	1f,1i,4a,4c,4d,4e,
Day 53	Sum and Difference Identities	Section 7.2	4c,4d,4e,
Day 54	Solving trig equations using sum and difference identities	Section 7.2	1f,1i,4a,4c,4d,4e,
Day 55	Double Angle Identities	Section 7.3	4c,
Day 56	Power-Reducing and half-angle identities	Section 7.3	4c,
Day 57	Sum to Product and Product to Sum Identities	Section 7.2	4c,4d,4e,
Day 58	Modeling Changing Amplitude and Midline	Section 7.4	6a,6c,6d,6e
Day 59	Review		
Day 60	Test 6		
Chapter 7: Further Applications of Trigonometry			
Day 61	Oblique Triangles: Law of Sines and Law of Cosines	Section 8.1	5b,6b,6d,6e
Day 62	Area of oblique triangles and Heron's Formula	supplement with outside resources	5a,5b,
Day 63	Graphing Polar Coordinates	Section 8.2	5g,
Day 64	Converting Polar coordinates to rectangular coordinates and vice versa	Section 8.2	4a,5g,
Day 65	Introduction to Vectors and operations on vectors	Section 8.4	4a,5c,
Day 66	Finding magnitude and direction of vectors	Section 8.4	4a,5c,
Day 67	Review		
Day 68	Test 7		
Challenge Exam Preparation			
Day 69	Review for Dual Credit Exam		
Day 70	Review for Dual Credit Exam		
Day 71	Review for Dual Credit Exam		
Day 72	Review for Dual Credit Exam		
Day 73	Review for Dual Credit Exam		
Day 74	Review for Dual Credit Exam		
Day 75	Dual Credit Challenge Exam		

Continue Chapter 7: Further Applications of Trigonometry			
Day 76	Graphing Polar Equations	Section 8.2	
Day 77	Converting polar equations to rectangular equations and vice versa	Section 8.2	
Day 78	Converting polar equations to rectangular equations and vice versa	Section 8.2	
Day 79	Dot Product of Vectors	Section 8.5	
Day 80	Parametric Equations	Section 8.6	
Day 81	Parametric equations	Section 8.6	
Day 82	Ellipses	Section 9.1	
Day 83	Hyperbolas	Section 9.2	
Day 84	Parabolas and Non-Linear Systems of equations	Section 9.3	
Day 85	Conics in Polar Coordinates	Section 9.4	

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