

Pacing Chart for Precalculus Honors
Text: Precalculus With Limits, A Graphing Approach, Fifth Edition
By Larson, Hostetler and Edwards, Houghton Mifflin, 2008
Block Schedule 2009 - 2010

Suggested Dates	Number of Block Days	Unit, Chapter and Major Concepts	Houghton Mifflin Essential Sections	CST Sections (Standards)
9/10 - 9/25	6	Chapter 1: Functions and Their Graphs Slopes of Lines, Writing Equations of Lines; Identify, Categorize, and Describe Functions; Graph Functions and Their Transformations; Combinations of Functions; Composition, Inverse, and use of Functions in the Real World; Linear Models and Scatter Plots	1.1 – 1.7 Ch. Review, Assessment	1.1 (AI-7, 8) 1.2 (AI-16, 17) 1.3 (AI-16, 17, AII-10) 1.4 (G-22, AII-9) 1.5 (AII-24) 1.6 (AII-24), 1.7 (PS-8)
9/28 – 10/17	8	Chapter 2: Polynomial and Rational Functions Quadratic Functions; Polynomial Functions of Higher Degree; Analyze and Graph Polynomial Functions; Real Zeros of Polynomial Functions; Complex Numbers; The Fundamental Theorem of Algebra; Rational Functions and Asymptotes; Graph of Rational Functions; Quadratic Models	2.1 - 2.8 Ch. Review, Assessment	2.1 (AI-21- 23, AII-10) 2.2 (MA-6), 2.3 (AII-3) 2.4 (AII-6, MA-4) 2.5 (MA-4) 2.6 & 2.7 (MA-6) 2.8 (PS-8)
10/20 – 11/06	7	Chapter 3: Exponential and Logarithmic Functions Exponential Functions and Their Graphs; Logarithmic Functions and Their Graphs; Properties of Logarithms; Solving Exponential and Logarithmic Equations; Exponential and Logarithmic Models; Nonlinear Models	3.1- 3.6 Ch. Review, Assessment	3.1 (AII-12) 3.2 (AII-11.1) 3.3 (AII-11.2, 14) 3.4 (AII-11.1, 12) 3.5 (AII-11.2, 12) 3.6 (PS-8)
11/9 – 11/25	6	Chapter 4: Trigonometric Functions Degree and Radian Angle Measures; Use and Apply Trigonometric and Circular Functions; Solve Right Triangles; Special and Quadrant Angles; Trigonometric Functions of Any Angle	4.1 - 4.4 Ch. Review, Assessment	4.1 (T-1), 4.2 (T-2, 5, 6) 4.3 (G-18, 19) 4.4 (G-20, T-2, 5, 6, 9)
11/30 – 12/15	6	Chapter 4: Trigonometric Functions (continued) Trigonometric Graphs and Transformations; Inverse Trigonometric Functions; Applications and Models	4.5 – 4.8 Ch. Review, Assessment	4.5 (T-2, 4), 4.6 (T-5, 6) 4.7 (T-8, 19), 4.8 (T-19)
12/16 – 1/19	6	Chapter 7: Linear Systems and Matrices Solve Systems of Linear Equations in 2 Variables by Algebraic and Graphing Methods; Multivariable Systems; Partial Fraction Decomposition Appendix F: Systems of Inequalities Solve Systems of Inequalities Using Algebra and Graphing; Linear Programming	7.1 – 7.3 F.1 – F.2 Ch. Review, Assessment	7.1 (AII-2, LA-6) 7.2 (AII-2, LA-6, 8) 7.3 (LA-1) F.1 (AII-2) F.2 (AII-2)
1/20 – 1/25	2	Cumulative Review for First Semester Exam	Review for Final Exam	
1/26 – 1/29	1 out of 4	First Semester Exam	Semester Final Exam	

() Indicates California State Framework Reference: AI - Algebra I, G – Geometry, AII - Algebra II, T – Trigonometry, PS - Probability & Statistics, MA – Math Analysis, LA – Linear Algebra

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2/01 – 2/18	6	Chapter 5: Analytic Trigonometry Verify and use Trigonometric Identities; Solve Trigonometric Equations; Sum and Difference of Angles Formulas; Double and Half Angle Identities; Multiple-Angle and Product-to-Sum Formulas; Solve Trigonometric Equations	5.1 - 5.5 Ch. Review, Assessment	5.1 & 5.2 (T-3, 10, 11) 5.4 (T-10) 5.5 (T-11)
2/19 – 3/10	7	Chapter 6: Additional Topics in Trigonometry Solve Triangles Using Law of Sines, Law of Cosines; Area Formulas for SAS and SSS cases; Solve real world problems; Vectors and Dot Products; Trigonometric Form of a Complex Number	6.1 - 6.5 Ch. Review, Assessment	6.1 (T-13, 14) 6.2 (T-13) 6.3 & 6.4 (MA-1, LA-7, 12) 6.5 (MA-2, T-18)
3/11 – 3/30	7	Chapter 8: Sequences, Series, and Probability Arithmetic and Geometric Sequences and Series; Sigma Notation; Pascal's Triangle and Binomial Theorem; Counting Principles, Permutations and Combinations; Mathematical Induction; Probability	8.1 – 8.7 Ch. Review, Assessment	8.1 - 8.3 (AII-22, 23) 8.4 (AII-21) 8.5 (AII – 20) 8.6 (AII-18) 8.7 (AII-19, PS-1)
3/31 – 4/14	3	Appendix B and C: Concepts in Statistics Supplementary Statistics and Review . . . Representing Data Graphically; Measures of Central Tendency and Dispersion; Variance and Standard Deviation. SUPPLEMENT!	B.5, C.1 Geometry Review Ch. Review, Assessment	B.5 (PS-8) C. 1 (PS-5, 6, 7, 8)
4/15 – 5/14	11	Chapter 9: Topics in Analytic Geometry Circles and Parabolas; Ellipses; Hyperbolas; Rotations and Systems of Quadratic Equations; Parametric Equations; Polar Coordinates and Their Graphs	9.1 - 9.7 Ch. Review, Assessment	9.1 - 9.3 (MA-5, AII-16, 17) 9.4 (MA-5) 9.5 (MA-7) 9.6 (T-15, 16) 9.7 (MA-1)
5/17 – 6/04	7	Chapter 11: Limits and An Introduction to Calculus Introduction to Limits; Evaluating Limits; Tangent Line and Area Problems	11.1 – 11.5 Ch. Review, Assessment	11.1 (MA-8) 11.2 (MA-8) 11.4 (MA-8)
6/07 – 6/10	2	Cumulative Review	Review for End-of-Course Exam	
6/11 – 6/16	1 out of 4	2nd Semester Final Exam	End-of-Course Exam	

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Comparison of Curriculums for Precalculus and Precalculus Honors:

Both courses take a functional point of view towards topics and are designed to strengthen and enhance conceptual understanding and mathematical reasoning in the preparation for Calculus. The curriculum for the honors course differs from the regular course in the depth (or rigor) of the topics presented as well as the additional topics that are included. Also, little time is spent on reviewing previous courses.

Additional time allotted for these topics in Precalculus:

Distance and Midpoint Formulas; Graphing Equations; Solving Equations Algebraically/Graphically; Solving inequalities Algebraically/Graphically

Additional topics in Precalculus Honors:

Quadratic Models; Nonlinear Models; Partial Fractions; Mathematical Induction; Parametric Equations; Derivative as Limit of a Tangent Line; Summation Formulas as Limits; Finding the Area of a Region