Pre-Calculus AB: Topics and Assignments
Weeks of 8/1 and 8/8

Monday	8/1	NO SCHOOL!	
Tuesday	8/2	NO SCHOOL!	
Wednesday	8/3	Start of School	
Thursday	8/4	Class Policy and Expectations Lesson 5 *Exponents and Radicals* *Complex Numbers* *Areas of Similar Geometric Figures* *Diagonals of Rectangular Solids*	
Friday	8/5	Lesson 6 *Fractional Equations* *Radical Equations* *Systems of Three Linear Equations*	⋆ HW DUE: PS 5 Parent Letter Student Info Sheet
Monday	8/8	Lesson 7 *Inductive and Deductive Reasoning* *Logic* *Contrapositive, converse, inverse*	⋆ HW DUE: PS 6
Tuesday	8/9	Lesson 8 *Statements of Similarity* *Proportional Segments* *Angle Bisectors, Side Ratios*	⋆ HW DUE: PS 7
Wednesday	8/10	**Quiz #1: Lessons 1-6**	⋆ HW DUE: PS 8
Thursday	8/11	Lesson 9 *Congruent Figures* *Proof Outlines*	⋆ HW DUE: None!
Friday	8/12	Lesson 10 *Equation of a Line* *Rational Denominators* *Completing the Square*	⋆ HW DUE: PS 9

Pre-Calculus AB: Topics and Assignments
Weeks of 8/15 and 8/22

Monday	8/15	Lesson 11 *Circles* *Properties of Circles*	⋆ HW DUE: PS 10
Tuesday	8/16	Lesson 12 *Angles, diagonals in Polygons*	⋆ **HW DUE: WS 1**
Wednesday	8/17	**TEST #1: Lessons 1-8**	⋆ HW DUE: None!
Thursday	8/18	Lesson 13 *Intersecting Secants, tangents* *Products of Chord Segments* *Product secant, tangent segments*	⋆ HW DUE: PS 12
Friday	8/19	Lesson 14 *Sine, Cosine, Tangent* *Angles of Elevation, depression* *Rectangular Polar Coords* *Coordinate Conversion*	⋆ HW DUE: PS 13
Monday	8/22	Lesson 15 *Proofs*	⋆ **HW DUE: WS 2**
Tuesday	8/23	Lesson 16 *Complex Fractions* *Abstract Equations* *Division of Polynomials*	⋆ HW DUE: PS 15
Wednesday	8/24	**Quiz #2: Lessons 8-14**	⋆ HW DUE: PS16
Thursday	8/25	Lesson 17 *Proofs of Pythagorean Thm* *Proofs of Similarity*	⋆ HW DUE: None!
Friday	8/26	Lesson 18 *Advanced Word Problems*	⋆ HW DUE: PS 17

Pre-Calculus AB: Topics and Assignments
Weeks of 8/29 and 9/5

Monday	8/29	Lesson 19 *Nonlinear Systems* *Factoring Exponentials* *Sum, Difference of Cubes*	⋆ **HW DUE: WS 3**
Tuesday	8/30	Lesson 20 *Two Special Triangles*	⋆ HW DUE: PS 19
Wednesday	8/31	**TEST #2: Lessons 1-16**	⋆ HW DUE: None!
Thursday	9/1	Lesson 21 *Evaluating Functions* *Domain and Range* *Tests for Functions*	⋆ HW DUE: PS 20
Friday	9/2	Lesson 21 *Basic Graphs* *Transformations*	⋆ **HW DUE: WS 4**
Monday	9/5	NO SCHOOL!	
Tuesday	9/6	Lesson 22 *Absolute Value Function* *Reciprocal Functions*	⋆ **HW DUE: WS 5**
Wednesday	9/7	**Quiz #3: Lessons 16-21**	⋆ HW DUE: PS 22
Thursday	9/8	Lesson 23 *Exponential Functions* *sketching Exponentials*	⋆ HW DUE: None!
Friday	9/9	Lesson 24 *Sum of Trig Functions* *Combining Functions*	⋆ HW DUE: PS 23

Pre-Calculus AB: Topics and Assignments
Weeks of 9/12 and 9/19

Monday	9/12	Lesson 25 *Rate Problems*	⋆ HW DUE: PS 24
Tuesday	9/13	Lesson 26 *Log and Exponential Form* *Log Equations*	⋆ **HW DUE: WS 6**
Wednesday	9/14	**TEST #3: Lessons 1-22**	⋆ HW DUE: None!
Thursday	9/15	Lesson 27 *Related Angles* *Sign of Trig Functions*	⋆ HW DUE: PS 26
Friday	9/16	Lesson 28 *Factorial Notation* *Abstract Rate Problems*	⋆ HW DUE: PS 27
Monday	9/19	Lesson 29 *The Unit Circle* *Quadrantal Angles*	⋆ HW DUE: PS 28
Tuesday	9/20	Lesson 30 *Addition of Vectors* *Overlapping Triangles*	⋆ **HW DUE: WS 7**
Wednesday	9/21	**Quiz #4: Lessons 21-28**	⋆ HW DUE: PS 30
Thursday	9/22	Lesson 31 *Symmetry* *Reflections* *Translations*	⋆ HW DUE: None!
Friday	9/23	Lesson 32 *Inverse Functions*	⋆ HW DUE: PS 31

Pre-Calculus AB: Topics and Assignments
Weeks of 9/26 and 10/3

Monday	9/26	Lesson 32 *Inverse Trig Functions*	⋆ **HW DUE: WS 8**
Tuesday	9/27	Lesson 33 *Quadrilaterals* *Parallelograms* *Trapezoids*	⋆ **HW DUE: WS 9**
Wednesday	9/28	**TEST #4: Lessons 1-30**	⋆ HW DUE: None!
Thursday	9/29	Lesson 34 *Summation Notation* *Linear Regression* *Decomposing Functions*	⋆ HW DUE: PS 33
Friday	9/30	Lesson 35 *Change in Coordinates* *Distance Formula*	⋆ **HW DUE: WS 10**
Monday	10/3	Lesson 36 & 37 *Line as a Locus* *Midpoint Formula*	⋆ HW DUE: PS 35
Tuesday	10/4	Lesson 38 *Fund. Counting Principle* *Permutations* *Designated Roots* *Overall Average Rate*	⋆ HW DUE: PS 37
Wednesday	10/5	Lesson 39 *Forms of a Line*	⋆ HW DUE: PS 38
Thursday	10/6	**Quiz #5: Lessons 29-35**	⋆ **HW DUE: WS 11**
Friday	10/7	Lesson 40 *Argument in Math* *Law of Logs* *Properties of Inverses*	⋆ HW DUE: None!

Pre-Calculus AB: Topics and Assignments
Weeks of 10/10 and 10/17

Monday	10/10	NO SCHOOL!	
Tuesday	10/11	NO SCHOOL!	
Wednesday	10/12	NO SCHOOL!	
Thursday	10/13	NO SCHOOL!	
Friday	10/14	NO SCHOOL!	
Monday	10/17	Lesson 41 *Reciprocal Trig Functions* *Permutation Notation*	⋆ **HW DUE: WS 12**
Tuesday	10/18	**TEST #5: Lessons 1-38**	⋆ HW DUE: None!
Wednesday	10/19	Lesson 42 *Conic Sections* *Circles* *Exponential Functions*	⋆ HW DUE: PS 41
Thursday	10/20	Lesson 43 *Periodic Functions* *Graphs of Sine and Cosine*	⋆ **HW DUE: WS 13**
Friday	10/21	Lesson 44 *Abstract Rate Problems*	⋆ **HW DUE: WS 14**

Pre-Calculus AB: Topics and Assignments
Weeks of 10/24 and 10/31

Monday	10/24	Lesson 45 *Conditional Permutations* *Two-variable Analysis*	⋆ HW DUE: PS 44
Tuesday	10/25	Lesson 46 *Complex Roots* *Factoring over* ℂ	⋆ HW DUE: PS 45
Wednesday	10/26	**Quiz #6: Lessons 38-44**	⋆ HW DUE: None!
Thursday	10/27	Lesson 47 *Vertical Sinusoid Shifts* *Arctangent*	⋆ **HW DUE: WS 15**
Friday	10/28	Lesson 48 *Powers of Trig Functions* *Perpendicular Bisectors*	⋆ **HW DUE: WS 16**
Monday	10/31	Lesson 49 & 50 *Log Functions* *Trig Equations*	⋆ HW DUE: PS 48
Tuesday	11/1	Lesson 51 & 52 *Natural and Common Logs* *Arguments in Trig Equations*	⋆ **HW DUE: WS 17**
Wednesday	11/2	**TEST #6: Lessons 1-46**	⋆ HW DUE: None!
Thursday	11/3	Lesson 53 *Unit Multipliers* *Angular Velocity*	⋆ HW DUE: PS 52
Friday	11/4	Lesson 54 *Parabolas*	⋆ HW DUE: PS 53

Pre-Calculus AB: Topics and Assignments
Weeks of 11/7 and 11/14

Monday	11/7	Lesson 55 *Circular Permutations* *Distinguishable Permutations*	⋆ **HW DUE: WS 18**
Tuesday	11/8	Lesson 56 *Triangular Areas* *System of Inequalities*	⋆ HW DUE: PS 55
Wednesday	11/9	**Quiz #7: Lessons 46-53**	
Thursday	11/10	Lesson 57 *Phase Shifts* *Period of a Sinusoid*	⋆ HW DUE: PS 56
Friday	11/11	NO SCHOOL!	
Monday	11/14	Lesson 58 *Distnace from point to line* *More Parabolas*	⋆ **HW DUE: WS 19**
Tuesday	11/15	Lesson 59 *Advanced Log Problems* *Color of the White House*	⋆ HW DUE: PS 58
Wednesday	11/16	**TEST #7: Lessons 1-55**	⋆ HW DUE: None!
Thursday	11/17	Lesson 60 *Factorable Trig Equations* *Loss of Solutions*	⋆ **HW DUE: WS 20**
Friday	11/18	Lesson 61 *Single-variable Analysis* *Normal Distribution* *Box and Whisker Plots*	⋆ **HW DUE: WS 21**

Pre-Calculus AB: Topics and Assignments
Weeks of 11/21 and 11/28

Monday	11/21	Lesson 62 & 63 *Abstract Coefficients* *Linear Variation* *Circles*	⋆ HW DUE: PS 61
Tuesday	11/22	Fun Day	⋆ **HW DUE: WS 22**
Wednesday	11/23	NO SCHOOL!	
Thursday	11/24	NO SCHOOL!	
Friday	11/25	NO SCHOOL!	
Monday	11/28	NO SCHOOL!	
Tuesday	11/29	Lesson 64 *Complex Plane* *Polar Form* *Sums and Products*	⋆ HW DUE: None!
Wednesday	11/30	**Quiz #8: Lessons 55-61**	⋆ HW DUE: PS 64
Thursday	12/1	Lesson 65 *Radicals in Trig Equations* *Graphs of Log Functions*	⋆ HW DUE: None!
Friday	12/2	Lesson 66 *Standard Form of a Sinusoid* *Phase Shifts, Period Changes*	⋆ HW DUE: PS 65

Pre-Calculus AB: Topics and Assignments
Weeks of 12/5 and 12/12

Monday	12/5	Lesson 67 & 68 *Antilogarithms* *Locus Definition-Parabola* *Focus and Directrix*	⋆ **HW DUE: WS 23**
Tuesday	12/6	Lesson 68 *Standard Form of a Parabola* *Applications*	⋆ HW DUE: PS 67
Wednesday	12/7	**TEST #8: Lessons 1-64**	⋆ HW DUE: None!
Thursday	12/8	Lesson 69 *Matrices* *Determinants*	⋆ HW DUE: PS 68
Friday	12/9	Calculator Day *Graphing, Changing Window* *Finding zeros, max, min* *Intersection Points*	⋆ **HW DUE: WS 24**
Monday	12/12	Lesson 71 *The Ellipse*	⋆ **HW DUE: WS 25**
Tuesday	12/13	Lesson 72 *One Side, Two Parts* *Law of Sines*	⋆ HW DUE: PS 71
Wednesday	12/14	Lesson 73 & 74 *Regular Polygons* *Cramer's Rule*	⋆ **HW DUE: WS 26**
Thursday	12/15	Lesson 75 *Combinations*	⋆ HW DUE: PS 74
Friday	12/16	**Quiz # 9: Lessons 65 - 74**	⋆ HW DUE: PS 75

Pre-Calculus AB: Topics and Assignments
Weeks of 12/19 and 1/9

Monday	12/19	Lesson 76 *Even and Odd Functions* *Trig Identities*	⋆ HW DUE: None!
Tuesday	12/20	Lesson 77 *Binomial Expansion*	⋆ **HW DUE: WS 28**
Wednesday	12/21	Review Day	⋆ **HW DUE: WS 29**
Thursday	12/22	Christmas Party!	⋆ HW DUE: None!
Friday	12/23	NO SCHOOL!	
Monday	1/9	Review - Functions	
Tuesday	1/10	Review - Trig Functions	
Wednesday	1/11	Review - Word Problems	
Thursday	1/12	Review - Geometry	
Friday	1/13	Review - Algebra	

Pre-Calculus AB: Topics and Assignments
Weeks of 1/16 and 1/23

Monday	1/16	NO SCHOOL!	
Tuesday	1/17	Pre-Comps or Midterms	
Wednesday	1/18	Pre-Comps or Midterms *PreCalc AB Midterm Multiple Choice*	
Thursday	1/19	Pre-Comps or Midterms *PreCalc AB Free Response* *Pre-Calc AB Pre-Comp*	
Friday	1/20	Review Lessons 75-77 *Combinations* *Even and Odd Functions* *Trig Identities* *Binomial Expansion*	⋆ HW DUE: None!
Monday	1/23	Lesson 78 *The Hyperbola*	⋆ HW DUE: PS 77
Tuesday	1/24	Lesson 79 *De Moivre's Theorem* *Roots of Complex Numbers*	⋆ HW DUE: PS 78
Wednesday	1/25	**TEST #9: Lessons 1- 75**	⋆ HW DUE: None!
Thursday	1/26	Lesson 80 *Trig Identities*	⋆ **HW DUE: WS 30**
Friday	1/27	Lesson 81 *Law of Cosine*	⋆ HW DUE: PS 80

Pre-Calculus AB: Topics and Assignments
Weeks of 1/30 and 2/6

Monday	1/30	Lesson 82 *Taking the Log of* *Exponential Equations*	★ **HW DUE: WS 31**
Tuesday	1/31	Lesson 83 *Simple Probability* *Independent Events*	★ **HW DUE: WS 32**
Wednesday	2/1	**Quiz # 10 : Lessons 75-81**	★ HW DUE: PS 83
Thursday	2/2	Lesson 84 *Factorable Expressions* *Sketching Sinusoids*	★ HW DUE: None!
Friday	2/3	Lesson 85 *Advanced Trig Equations*	★ **HW DUE: WS 33**
Monday	2/6	Lesson 86 *Arithmetic Progressions* *Arithmetic Means*	★ HW DUE: PS 85
Tuesday	2/7	Lesson 87 *Sum/Difference Identities* *Tangent Iddentities*	★ **HW DUE: WS 34**
Wednesday	2/8	**TEST #10: Lessons 1-83**	★ HW DUE: None!
Thursday	2/9	Lesson 88 *Exponential Functions* *Exponential Growth/Decay*	★ HW DUE: PS 87
Friday	2/10	Lesson 89 & 90 *The Ellipse (2)* *Double Angle Identities*	★ **HW DUE: WS 35**

Pre-Calculus AB: Topics and Assignments
Weeks of 2/13 and 2/20

Monday	2/13	**Lesson 91 & 92** *Geometric Progression* *Probability of Either*	⋆ HW DUE: PS 90
Tuesday	2/14	**Lesson 93** *Advanced Trig Identities* *Triangle Inequalities*	⋆ **HW DUE: WS 36**
Wednesday	2/15	**Quiz #11: Lessons: 83-89**	⋆ HW DUE: PS 93
Thursday	2/16	**Lesson 94 & 95** *Graphs of Secant, Cosecant* *Graphs of Tangent, Cotangent* *Advanced Complex Roots*	⋆ HW DUE: None!
Friday	2/17	**Lesson 96 & 97** *Double Angle Identities* *Triangle Area Formula* *The Ambiguous Case*	⋆ **HW DUE: WS 37**
Monday	2/20	**Lesson 98** *Change of Base Formula* *Contrived Log Problems*	⋆ HW DUE: PS 97
Tuesday	2/21	**Lesson 99** *Sequence Notation* *Advanced Sequence Problems* *Arithmetic/Geometric Means*	⋆ HW DUE: PS 98
Wednesday	2/22	NO SCHOOL!	⋆ HW DUE: None!
Thursday	2/23	NO SCHOOL!	⋆ HW DUE: None!
Friday	2/24	NO SCHOOL!	⋆ HW DUE: None!

Pre-Calculus AB: Topics and Assignments
Weeks of 2/27 and 3/6

Monday	2/27	Series (104) *Arithmetic Series* *Geometric Series* *Nth Partial Sums*	⋆ **HW DUE: WS 38**
Tuesday	2/28	Series (107) *Infinite Series* *Convergent Geometric Series*	⋆ HW DUE: PS 99
Wednesday	3/1	**TEST # 11: Lessons 1-97**	⋆ HW DUE: None!
Thursday	3/2	Matrices (101, 105) *3 x 3 Determinants* *Cramer's Rule* *Independant Systems*	⋆ HW DUE: WS 39
Friday	3/3	Matrices (108) *Matrix Multiplication*	⋆ HW DUE: WS 40
Monday	3/6	Rationals and Primes (109, 117) *Rational vs. Real Numbers* *Proof Number is Rational* *Prime vs. Relatively Prime*	⋆ HW DUE: WS 41
Tuesday	3/7	Binomial Theorem (102, 112) *Binomial Expansion* *Combinations-Pascal's Triangle* *Binomial Theorem*	⋆ HW DUE: WS 42
Wednesday	3/8	**Quiz # 12: Series, Matrices**	⋆ HW DUE: None!
Thursday	3/9	Conic Sections (106, 123) *Types of Conic Sections* *Translated Conic Sections* *General Conic Equation*	⋆ HW DUE: WS 43
Friday	3/10	Fun Day!	⋆ HW DUE: WS 44

Pre-Calculus AB: Topics and Assignments
Weeks of 3/13 and 3/20

Monday	3/13	NO SCHOOL!	
Tuesday	3/14	NO SCHOOL!	
Wednesday	3/15	NO SCHOOL!	
Thursday	3/16	NO SCHOOL!	
Friday	3/17	NO SCHOOL!	
Monday	3/20	Inverse Trig Functions (110) *Graphs, Domain, Range* *Inverse Properties*	⋆ HW DUE: None!
Tuesday	3/21	Inverse Trig Functions (110) *Applications*	⋆ HW DUE: WS 45
Wednesday	3/22	**TEST # 12: Upto Conics**	⋆ HW DUE: None!
Thursday	3/23	Exponential Functions (88) *Solving Equations* *Word Problems*	⋆ HW DUE: WS 46
Friday	3/24	Exponential Functions (88) *Exponential Models* *Interpretations*	⋆ HW DUE: WS 47

Pre-Calculus AB: Topics and Assignments
Weeks of 3/27 and 4/3

Monday	3/27	Functions (24) *Continuous Functions* *Increasing/Decreasing* *Local Maximas/Minimas* *Function Operations*	⋆ HW DUE: WS 48
Tuesday	3/28	AZmerit	
Wednesday	3/29	AZmerit	
Thursday	3/30	AZmerit	
Friday	3/31	AMIS	
Monday	4/3	Functions (21, 31, 32) *Transformations* *One-to-one Functions* *Inverse Functions*	⋆ HW DUE: WS 49
Tuesday	4/4	Functions (18, 44) *A Function of* *Word Problems*	⋆ HW DUE: WS 50
Wednesday	4/5	**Quiz# 13: Inverse Trig to Functions**	⋆ HW DUE: None!
Thursday	4/6	Piecewise Functions (121) *Evaluating* *Graphing* *Writing Equations*	⋆ HW DUE: WS 51
Friday	4/7	Piecewise Functions (121) *Step Functions* *Applications*	⋆ HW DUE: WS 52

Pre-Calculus AB: Topics and Assignments
Weeks of 4/10 and 4/17

Monday	4/10	Absolute Value Functions (22) *Graphs of* $\|f(x)\|$ *Graphs of* $f(\|x\|)$	⋆ HW DUE: WS 53
Tuesday	4/11	Optimization Problems *Set Up* *Finding Max/Min on Calc*	⋆ HW DUE: WS 54
Wednesday	4/12	Optimization Problems *Work on WS 55*	⋆ HW DUE: None!
Thursday	4/13	Limits of Functions *End Behavior* *Holes*	⋆ HW DUE: WS 55
Friday	4/14	NO SCHOOL!	
Monday	4/17	NO SCHOOL!	
Tuesday	4/18	Polynomials (113, 114, 115) *End Behavior* *Local vs. Absolute Extrema* *Turning Points/Zeros* *Graphs-Distinct Linear Factors*	⋆ HW DUE: WS 55.5
Wednesday	4/19	**Quiz # 14: Functions to Optimization**	⋆ HW DUE: None!
Thursday	4/20	Polynomials (114) *Irreducible Factors* *Multiplicity of Roots* *Graphs*	⋆ HW DUE: WS 56
Friday	4/21	Polynomials (117, 118) *Factoring Polynomials* *Remainder Theorem* *Rational Roots Theorem*	⋆ HW DUE: WS 57

Pre-Calculus AB: Topics and Assignments
Weeks of 4/24 and 5/1

Monday	4/24	Rational Functions (122) *Holes and Zeros* *Vertical Asymptotes* *Horizontal/Slant Asymptotes*	⋆ HW DUE: WS 58
Tuesday	4/25	Ractional Functions (122) *End behavior* *Sign Chart* *Graphs*	⋆ HW DUE: WS 59
Wednesday	4/26	Rational Functions (122, 125) *Graphs*	⋆ HW DUE: WS 60
Thursday	4/27	Test Review	⋆ HW DUE: WS 61
Friday	4/28	**TEST # 13: Cumulative**	⋆ HW DUE: None!
Monday	5/1	Topic: Comp Review *Complex numbers (14, 79)* *Functions (21, 34, 38)*	⋆ HW: None!
Tuesday	5/2	Topic: Comp Review *Trig Functions (32, 41, 48, 66)* *Permutations (38)* *Combinations (75)* *Binomial Exp. (77)* *Sequences (99)*	⋆ HW: Comp WS 1 Comp WS 2
Wednesday	5/3	Topic: Comp Review *Trig Equations (52, 60, 84)* *System of Inequalities (56)* *Completing the Square (63)*	⋆ HW: Comp WS 3 Comp WS 4
Thursday	5/4	Topic: Comp Review *Logarithms (59, 98)* *Cramer's Rule (62, 74)* *Determinants (69)*	⋆ HW: Comp WS 5 Comp WS 6
Friday	5/5	Topic: Comp Review *Law of Sines (72)* *Identities (87, 90, 96)* *Exponential Functions (82, 88)*	⋆ HW: Comp WS 7 Comp WS 8

Pre-Calculus AB: Topics and Assignments
Weeks of 5/8 and 5/15

Monday	5/8	Topic: Comp Review *Polynomials* *Rational Functions*	⋆ HW: Comp WS 9 & 10
Tuesday	5/9	Topic: Comp Review	⋆ HW: Comp WS 11 & 12
Wednesday	5/10	Topic: Comp Review	⋆ HW: Review 56-60, 66-70
Thursday	5/11	Topic: Comp Reivew	⋆ HW: Review 71-75, 76-80
Friday	5/12	Topic: Comp Review	⋆ HW: Review 86-90, 96-99
Monday	5/15	Comp or Final Exams	
Tuesday	5/16	Comp or Final Exams	
Wednesday	5/17	Comp or Final Exams	
Thursday	5/18	Checkout Day	
Friday	5/19	Start of Project Week	