## **Pre-Calculus AB: Topics and Assignments** Weeks 1 and 2

	1		
Monday	7/30	NO SCHOOL!	
Tuesday	7/31	NO SCHOOL!	
Wednesday	8/1	Start of School	
Thursday	8/2	Class Policy and Expectations Lesson 5 Exponents and Radicals Complex Numbers Areas of Similar Geometric Figures Diagonals of Rectangular Solids	
Friday	8/3	Lesson 6 Fractional Equations Radical Equations Systems of Three Linear Equations	★ HW DUE: PS 5 Student Info Sheet
Monday	8/6	Lesson 7 Inductive and Deductive Reasoning Logic Contrapositive, converse, inverse	★ HW DUE: PS 6
Tuesday	8/7	Lesson 8 Statements of Similarity Proportional Segments Angle Bisectors, Side Ratios	★ HW DUE: PS 7
Wednesday	8/8	Quiz #1: Lessons 1-6	
Thursday	8/9	Lesson 9 Congruent Figures Proof Outlines	$\star$ HW DUE: PS 8
Friday	8/10	Lesson 10 Equation of a Line Rational Denominators Completing the Square	★ HW DUE: PS 9

## **Pre-Calculus AB: Topics and Assignments** Weeks 3 and 4

Monday	8/13	Lesson 11 Circles Properties of Circles	* HW DUE: PS 10
Tuesday	8/14	Lesson 12 Angles, diagonals in Polygons	$\star$ HW DUE: WS 1
Wednesday	8/15	TEST #1: Lessons 1-8	
Thursday	8/16	Lesson 13 Intersecting Secants, tangents Products of Chord Segments Product secant, tangent segments	★ HW DUE: PS 12
Friday	8/17	Lesson 14 Sine, Cosine, Tangent Angles of Elevation, depression Rectangular Polar Coords Coordinate Conversion	* HW DUE: PS 13
	2/20	NO SCHOOL!	
Monday Tuesday	8/20 8/21	Lesson 15 Proofs	$\star$ HW DUE: WS 2
Wednesday	8/22	Quiz #2: Lessons 8-14	
Thursday	8/23	Lesson 16 Complex Fractions Abstract Equations Division of Polynomials	★ HW DUE: PS 15
Friday	8/24	Lesson 17	$\star$ HW DUE: PS 16

## **Pre-Calculus AB: Topics and Assignments** Weeks 5 and 6

Monday	8/27	Lesson 18 Advanced Word Problems	$\star$ HW DUE: PS 17
Tuesday	8/28	Lesson 19 Nonlinear Systems Factoring Exponentials Sum, Difference of Cubes	* HW DUE: WS 3
Wednesday	8/29	TEST #2: Lessons 1-16	
Thursday	8/30	Lesson 20 Two Special Triangles	$\star$ HW DUE: PS 19
Friday	8/31	Lesson 21 Evaluating Functions Domain and Range Tests for Functions	★ HW DUE: PS 20
Mondou	0/2	NO SCHOOL!	
Monday Tuesday	9/3 9/4	Lesson 21 Basic Graphs Transformations	$\star$ HW DUE: WS 4
Wednesday	9/5	Quiz #3: Lessons $16-21$	
Thursday	9/6	Lesson 22 Absolute Value Function Reciprocal Functions	$\star$ HW DUE: WS 5
Friday	9/7	Lesson 23 Exponential Functions	$\star$ HW DUE: PS 22

## **Pre-Calculus AB: Topics and Assignments** Weeks 7 and 8

Monday	9/10	Lesson 24 Sum of Trig Functions Combining Functions	* HW DUE: PS 23
Tuesday	9/11	Lesson 25 Rate Problems	$\star$ HW DUE: PS 24
Wednesday	9/12	TEST #3: Lessons $1-22$	
Thursday	9/13	Lesson 26 Log and Exponential Form Log Equations	* HW DUE: WS 6
Friday	9/14	Lesson 27 Related Angles Sign of Trig Functions	★ HW DUE: PS 26
Monday	9/17	Lesson 28 Factorial Notation Abstract Rate Problems	* HW DUE: PS 27
Tuesday	9/18	Lesson 29 The Unit Circle Quadrantal Angles	★ HW DUE: PS 28
Wednesday	9/19	Quiz #4: Lessons 21-28	
Thursday	9/20	Lesson 30 Addition of Vectors Overlapping Triangles	$\star$ HW DUE: WS 7
Friday	9/21	Lesson 31 Symmetry Reflections Translations	* HW DUE: PS 30

## **Pre-Calculus AB: Topics and Assignments** Weeks 9 and 10

Monday	9/24	Lesson 32 Inverse Functions	* HW DUE: PS 31
Tuesday	9/25	Lesson 32 Inverse Trig Functions	* HW DUE: WS 8
Wednesday	9/26	TEST #4: Lessons 1-30	
Thursday	9/27	Lesson 33 Quadrilaterals Parallelograms Trapezoids	* HW DUE: WS 9
Friday	9/28	Lesson 34 Summation Notation Linear Regression Decomposing Functions	★ HW DUE: PS 33
Monday	10/1	Lesson 35 Change in Coordinates Distance Formula	* HW DUE: WS 10
Tuesday	10/2	Lesson 36 & 37 Line as a Locus Midpoint Formula	$\star$ HW DUE: PS 35
Wednesday	10/3	Quiz #5: Lessons 29-35	
Thursday	10/4	Lesson 38 Fund. Counting Principle Permutations Designated Roots Overall Average Rate	★ HW DUE: PS 37
Friday	10/5	Lesson 39 Forms of a Line	$\star$ HW DUE: PS 38

# Pre-Calculus AB: Topics and Assignments $_{\rm Week \ 11}$

Monday	10/8	NO SCHOOL!	
Tuesday	10/9	NO SCHOOL!	
Wednesday	10/10	NO SCHOOL!	
Thursday	10/11	NO SCHOOL!	
Friday	10/12	NO SCHOOL!	
Monday	10/15	Lesson 40 Argument in Math Law of Logs Properties of Inverses	* HW DUE: WS 11
Tuesday	10/16	Lesson 41 Reciprocal Trig Functions Permutation Notation	* HW DUE: WS 12
Wednesday	10/17	TEST $#5$ : Lessons 1-38	
Thursday	10/18	Lesson 42 Conic Sections Circles Exponential Functions	★ HW DUE: PS 41
Friday	10/19	Lesson 43 Periodic Functions Graphs of Sine and Cosine	* HW DUE: WS 13

## **Pre-Calculus AB: Topics and Assignments** Weeks 12 and 13

Monday	10/22	Lesson 44 Abstract Rate Problems	$\star$ HW DUE: WS 14
Tuesday	10/23	Quiz #6: Lessons $38-44$	
Wednesday	10/24	Lesson 45 Conditional Permutations Two-variable Analysis	$\star$ HW DUE: PS 44
Thursday	10/25	Lesson 46 Complex Roots $Factoring over \mathbb{C}$	$\star$ HW DUE: PS 45
Friday	10/26	Lesson 47 Vertical Sinusoid Shifts Arctangent	* HW DUE: WS 15
Monday	10/29	Lesson 48 Powers of Trig Functions Perpendicular Bisectors	* HW DUE: WS 16
Tuesday	10/30	Lesson 49 & 50 Log Functions Trig Equations	★ HW DUE: PS 48
Wednesday	10/31	TEST #6: Lessons 1-46	
Thursday	11/1	Lesson 51 & 52 Natural and Common Logs Arguments in Trig Equations	* HW DUE: WS 17
Friday	11/2	Lesson 53 Unit Multipliers Angular Velocity	$\star$ HW DUE: PS 52

## **Pre-Calculus AB: Topics and Assignments** Weeks 14 and 15

Monday	11/5	Lesson 54 Parabolas	$\star$ HW DUE: PS 53
Tuesday	11/6	Lesson 55 Circular Permutations Distinguishable Permutations	* HW DUE: WS 18
Wednesday	11/7	Quiz #7: Lessons 46-53	
Thursday	11/8	Lesson 56 Triangular Areas System of Inequalities	$\star$ HW DUE: PS 55
Friday	11/9	Lesson 57 Phase Shifts Period of a Sinusoid	* HW DUE: PS 56
Monday	11/12	NO SCHOOL!	
Wonday	11/14	NO SONOOL:	
Tuesday	11/13	Lesson 58 Distnace from point to line More Parabolas	* HW DUE: WS 19
Tuesday Wednesday	11/13 11/14	Distnace from point to line	* HW DUE: WS 19
		Distnace from point to line More Parabolas	* <b>HW DUE: WS 19</b> * HW DUE: PS 58

## **Pre-Calculus AB: Topics and Assignments** Weeks 16 and 17

Monday	11/19	Lesson 61 Single-variable Analysis Normal Distribution Box and Whisker Plots	* HW DUE: WS 21
Tuesday	11/20	TBA	$\star$ HW DUE: PS 61
Wednesday	11/21	NO SCHOOL!	
Thursday	11/22	NO SCHOOL!	
Friday	11/23	NO SCHOOL!	
Monday	11/26	NO SCHOOL!	
Tuesday	11/27	Lesson 62 & 63 Abstract Coefficients Linear Variation Circles	
Wednesday	11/28	Quiz #8: Lessons 55-61	
Thursday	11/29	Lesson 64 Complex Plane Polar Form Sums and Products	* HW DUE: WS 22
Friday	11/30	Lesson 65 Radicals in Trig Equations Graphs of Log Functions	$\star$ HW DUE: PS 64

## Pre-Calculus AB: Topics and Assignments Weeks 18 and 19

Monday	12/3	Lesson 66 Standard Form of a Sinusoid Phase Shifts, Period Changes	$\star$ HW DUE: PS 65
Tuesday	12/4	Lesson 67 & 68 Antilogarithms Locus Definition-Parabola Focus and Directrix	* HW DUE: WS 23
Wednesday	12/5	TEST #8: Lessons 1-64	
Thursday	12/6	Lesson 68 Standard Form of a Parabola Applications	* HW DUE: PS 67
Friday	12/7	Lesson 69 Matrices Determinants	$\star$ HW DUE: PS 68
Monday	12/10	Calculator Day Graphing, Changing Window Finding zeros, max, min Intersection Points	* HW DUE: WS 24
Tuesday	12/11	Lesson 71 The Ellipse	* HW DUE: WS 25
Wednesday	12/12	Lesson 72 One Side, Two Parts Law of Sines	$\star$ HW DUE: PS 71
Thursday	12/13	Lesson 73 & 74 Regular Polygons Cramer's Rule	* HW DUE: WS 26
Friday	12/14	Lesson 75 Combinations	$\star$ HW DUE: PS 74

## **Pre-Calculus AB: Topics and Assignments** Weeks 20 and 21

Monday	12/17	Lesson 76 Even and Odd Functions Trig Identities	$\star$ HW DUE: PS 75
Tuesday	12/18	Lesson 77 Binomial Expansion	* HW DUE: WS 28
Wednesday	12/19	Quiz # 9: Lessons $65 - 74$	HW DUE: WS 29
Thursday	12/20	Christmas Party! + Gift Exchange	Bring a gift under \$10
Friday	12/21	NO SCHOOL!	
Monday	1/7	Review - Functions	
Monday Tuesday	1/7 1/8	Review - Functions Review - Trig Functions	
Tuesday	1/8	Review - Trig Functions	

## **Pre-Calculus AB: Topics and Assignments** Weeks 22 and 23

Monday	1/15	Exam Study	
Tuesday	1/15	Pre-Comps or Midterms	
Wednesday	1/16	Pre-Comps or Midterms	
Thursday	1/17	Pre-Comps or Midterms	
Friday	1/18	Review Lessons 72-77 Law of Sines Cramer's Rule Combinations Even and Odd Functions Trig Identities Binomial Expansion	
Monday	1/21	NO SCHOOL!	
Tuesday	1/22	Lesson 78 The Hyperbola	$\star~$ HW DUE: PS 77
Wednesday	1/23	TEST #9: Lessons 1- 75	
Thursday	1/24	Lesson 79 De Moivre's Theorem Roots of Complex Numbers	$\star$ HW DUE: PS 78
Friday	1/25	Lesson 80 Trig Identities	* HW DUE: WS 30

## **Pre-Calculus AB: Topics and Assignments** Weeks 24 and 25

Monday	1/28	Lesson 81 Law of Cosine	* HW DUE: PS 80	
Tuesday	1/29	Lesson 82 Taking the Log of Exponential Equations	* HW DUE: WS 31	
Wednesday	1/30	Quiz # 10 : Lessons 75-81		
Thursday	1/31	Lesson 83 Simple Probability Independent Events	* HW DUE: WS 32	
Friday	2/1	Lesson 84 Factorable Expressions Sketching Sinusoids	★ HW DUE: PS 83	
Monday	2/4	Lesson 85 Advanced Trig Equations	* HW DUE: WS 33	
Tuesday	2/5	Lesson 86 Arithmetic Progressions Arithmetic Means	$\star$ HW DUE: PS 85	
Wednesday	2/6	TEST #10: Lessons 1-83		
Thursday	2/7	Lesson 87 Sum/Difference Identities Tangent Iddentities	* HW DUE: WS 34	
Friday	2/8	Lesson 88 Exponential Functions Exponential Growth/Decay	* HW DUE: PS 87	

# Pre-Calculus AB: Topics and Assignments $_{\rm Week\ 26}$

Monday	2/11	Lesson 89 & 90 The Ellipse (2) Double Angle Identities	* HW DUE: WS 35
Tuesday	2/12	Lesson 91 & 92 Geometric Progression Probability of Either	★ HW DUE: PS 90
Wednesday	2/13	Quiz #11: Lessons: 83-89	
Thursday	2/14	Lesson 93 Advanced Trig Identities Triangle Inequalities	* HW DUE: WS 36
Friday	2/15	Lesson 94 & 95 Graphs of Secant, Cosecant Graphs of Tangent, Cotangent Advanced Complex Roots	* HW DUE: PS 93
Monday	2/18	Lesson 96 & 97 Double Angle Identities Triangle Area Formula The Ambiguous Case	* HW DUE: WS 37
Tuesday	2/19	Lesson 98 Change of Base Formula Contrived Log Problems	$\star$ HW DUE: PS 97
Wednesday	2/20	Lesson 99 Sequence Notation Advanced Sequence Problems Arithmetic/Geometric Means	★ HW DUE: PS 98
Thursday	2/21	NO SCHOOL!	
Friday	2/22	NO SCHOOL!	

## **Pre-Calculus AB: Topics and Assignments** Weeks 27 and 28

Monday	2/25	Series (104) Arithmetic Series Geometric Series Nth Partial Sums	* HW DUE: WS 38
Tuesday	2/26	Series (117) Infinite Series Convergent Geometric Series	* HW DUE: PS 99
Wednesday	2/27	<b>TEST # 11: Lessons 1-97</b>	
Thursday	2/28	Matrices (101, 105) 3 x 3 Determinants Cramer's Rule Independant Systems	* HW DUE: WS 39
Friday	3/1	Matrices (108) Matrix Multplication	$\star$ HW DUE: WS 40
Monday	3/4	Rationals and Primes (109, 117) Rational vs. Real Numbers Proof Number is Rational Prime vs. Relatively Prime	$\star$ HW DUE: WS 41
Tuesday	3/5	Binomial Theorem (102, 112) Binomial Expansion Combinations-Pascal's Triangle Binomial Theorem	$\star$ HW DUE: WS 42
Wednesday	3/6	Quiz # 12: Series, Matrices	
Thursday	3/7	Conic Sections (106, 123) Types of Conic Sections Translated Conic Sections General Conic Equation	$\star$ HW DUE: WS 43
Friday	3/8	Conic Sections (106, 123) Work on WS 44	

# **Pre-Calculus AB: Topics and Assignments** Week 29

Monday	3/11	Inverse Trig Functions (110) <i>Graphs, Domain, Range</i> <i>Inverse Properties</i> * HW DUE: WS 4	
Tuesday	3/12	Inverse Trig Functions (110) Applications	$\star~$ HW DUE: WS 45
Wendesday	3/13	Review for Test 12	$\star$ HW DUE: WS 46
Thursday	3/14	TEST # 12: Upto Conics	
Friday	3/15	flex day	
	0/10		
Monday	3/18	NO SCHOOL!	
Tuesday	3/19	NO SCHOOL!	
Wednesday	3/20	NO SCHOOL!	
weathesday	0/20		
Thursday	3/21	NO SCHOOL!	
D · 1	2/22		
Friday	3/22	NO SCHOOL!	

# Pre-Calculus AB: Topics and Assignments Weeks 30 and 31

Monday	3/25	Exponential Functions (88) Solving Equations Word Problems	
Tuesday	3/26	Exponential Functions (88) Exponential Models Interpretations	★ HW DUE: WS 47
Wednesday	3/27	Functions (24) Continuous Functions Increasing/Decreasing Local Maximas/Minimas Function Operations	★ HW DUE: WS 48
Thursday	3/28	Functions (21, 31, 32) Transformations One-to-one Functions Inverse Functions	★ HW DUE: WS 49
Friday	3/29	Functions (18, 44) A Function of Word Problems	★ HW DUE: WS 50
Monday	4/1	Piecewise Functions (121) Evaluating Graphing Writing Equations	* HW DUE: WS 51
Tuesday	4/2	AZmerit	
Wednesday	4/3	AZmerit	
Thursday	4/4	AZmerit	
Friday	4/5	AIMS/Flex day	

## Pre-Calculus AB: Topics and Assignments Weeks 32 and 33

Monday4/8Piecewise Functions (121) Step Functions Applications* HW DUE: WS 52Tuesday4/9Absolute Value Functions (22) Graphs of  f(x)  Graphs of f(x)  Graphs of f(x)* HW DUE: WS 53Wednesday4/10Quiz# 13: Inverse Trig to Functions*Thursday4/11Optimization Problems Set Up Finding Max/Min on Cale* HW DUE: WS 54Friday4/12Optimization Problems Work on WS 55* HW DUE: WS 54Monday4/15NO SCHOOL!*Wednesday4/17Limits of Functions End Behavior Holes* HW DUE: WS 55Thursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors* HW DUE: WS 55.5Friday4/19Quiz # 14: Functions to Optimization*				
Wednesday4/10Quiz# 13: Inverse Trig to FunctionsThursday4/11Optimization Problems Set Up Finding Max/Min on Calc $\star$ HW DUE: WS 54Friday4/12Optimization Problems Work on WS 55 $\star$ HW DUE: WS 54Monday4/15NO SCHOOL! $\star$ Tuesday4/16NO SCHOOL! $\star$ HW DUE: WS 55Wednesday4/17Limits of Functions End Behavior Holes $\star$ HW DUE: WS 55Thursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors $\star$ HW DUE: WS 55.5	Monday	4/8	Step Functions	$\star$ HW DUE: WS 52
Thursday4/11Optimization Problems Set Up Finding Max/Min on Calc* HW DUE: WS 54Friday4/12Optimization Problems Work on WS 55* HW DUE: WS 54Monday4/15NO SCHOOL!*Tuesday4/16NO SCHOOL!*Wednesday4/17Limits of Functions End Behavior Holes* HW DUE: WS 55Thursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors* HW DUE: WS 55.5	Tuesday	4/9	Graphs of $ f(x) $	* HW DUE: WS 53
Friday4/12Set Up Finding Max/Min on CalcFriday4/12Optimization Problems Work on WS 55Monday4/15NO SCHOOL!Tuesday4/16NO SCHOOL!Wednesday4/17Limits of Functions End Behavior Holes* HW DUE: WS 55Thursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors* HW DUE: WS 55.5	Wednesday	4/10	Quiz# 13: Inverse Trig to Functions	
Work on WS 55Monday4/15NO SCHOOL!Tuesday4/16NO SCHOOL!Wednesday4/17Limits of Functions End Behavior Holes* HW DUE: WS 55Thursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors* HW DUE: WS 55.5	Thursday	4/11	Set Up	★ HW DUE: WS 54
Tuesday4/16NO SCHOOL!Wednesday4/17Limits of Functions End Behavior Holes* HW DUE: WS 55Thursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors* HW DUE: WS 55.5	Friday	4/12	-	
Tuesday4/16NO SCHOOL!Wednesday4/17Limits of Functions End Behavior Holes* HW DUE: WS 55Thursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors* HW DUE: WS 55.5	Monday	4/15	NO SCHOOL!	
Wednesday4/17Limits of Functions End Behavior Holes* HW DUE: WS 55Thursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors* HW DUE: WS 55.5	v			
End Behavior HolesThursday4/18Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors	Tuesday	4/16	NO SCHOOL!	
End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors	Wednesday	4/17	End Behavior	* HW DUE: WS 55
Friday 4/19 Quiz # 14: Functions to Optimization	Thursday	4/18	End Behavior Local vs. Absolute Extrema Turning Points/Zeros	* HW DUE: WS 55.5
	Friday	4/19	Quiz $\#$ 14: Functions to Optimization	
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## **Pre-Calculus AB: Topics and Assignments** Weeks 34 and 35

Thursday	4/22	Polynomials (114) Irreducible Factors Multiplicity of Roots Graphs	★ HW DUE: WS 56
Tuesday	4/23	Polynomials (117, 118) Factoring Polynomials Remainder Theorem Rational Roots Theorem	$\star$ HW DUE: WS 57
Wednesday	4/24	Rational Functions (122) Holes and Zeros Vertical Asymptotes Horizontal/Slant Asymptotes	$\star~$ HW DUE: WS 58
Thursday	4/25	Ractional Functions (122) End behavior Sign Chart Graphs	$\star$ HW DUE: WS 59
Friday	4/26	Rational Functions (122, 125) Graphs	$\star$ HW DUE: WS 60
Monday	4/29	Test Review	$\star$ HW DUE: WS 61
Tuesday	4/30	TEST # 13: Cumulative	
Wednesday	5/1	Topic: Comp Review Complex numbers (14, 79) Functions (21, 34, 38)	
Thursday	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
Friday	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

## Pre-Calculus AB: Topics and Assignments Weeks 36 and 37

Monday	5/6	Topic: Comp Review Logarithms (59, 98) Cramer's Rule (62, 74) Determinants (69)	* HW: Comp WS 5 Comp WS 6
Tuesday	5/7	Topic: Comp Review Law of Sines (72) Identities (87, 90, 96) Exponential Functions (82, 88)	* HW: Comp WS 7 Comp WS 8
Wednesday	5/8	Topic: Comp Review Polynomials Rational Functions	$\star$ HW: Comp WS 9 & 10
Thursday	5/9	Topic: Comp Review	$\star$ HW: Comp WS 11 & 12
Friday	5/10	Topic: Comp Review	$\star$ HW: Extras
Monday	5/13	Topic: Comp Reivew	$\star$ HW: Extras
Tuesday	5/14	Topic: Comp Review	$\star$ HW: Extras
Wednesday	5/15	Comp or Study for Final Exams	
Thursday	5/16	Comp or Final Exams	
Friday	5/17	Comp or Final Exams	

## **Pre-Calculus AB: Topics and Assignments** Week 38 and 39

Monday	5/20	Project week
Tuesday	5/21	Project week
Wednesday	5/22	Project week
Thursday	5/23	Project week
Friday	5/24	Project week