

Mr. Heinen - Algebra II Course Syllabus - SY 2026-27						
Student Days = 146	Date	DOW	Section	Topic	Assignments	Remarks
1	8/12/2026	Wed		Introduction and mathematics review - Intro to RUN-SWIM Problem	Teacher handouts	
2	8/13/2026	Thu			Prep Notebook / Binder	
3	8/17/2026	Mon				
4	8/18/2026	Tue	1-1	Functions and Continuity <i>Explore: Vertical and Horizontal Line Tests</i>	All section odd problems	NWEA BOY (estimated date)
5	8/19/2026	Wed			All section odd problems	
6	8/20/2026	Thu	1-2	Linearity, Intercepts, and Symmetry <i>Explore: Symmetry and Functions</i>	All section odd problems	
7	8/24/2026	Mon	1-3	Extrema and End Behavior <i>Explore: End Behavior of Linear and Quadratic Functions</i>	All section odd problems	
8	8/25/2026	Tue	1-4	Sketching Graphs and Comparing Functions <i>Explore: Using Technology to Examine Key Features of Graphs</i>	All section odd problems	
9	8/26/2026	Wed	1-5	Graphing Linear Functions and Inequalities <i>Explore: Shading Graphs of Linear Inequalities</i>	Quiz	
10	8/27/2026	Thu	1-6	Special Functions <i>Explore: Using Tables to Graph Piecewise Functions</i>	All section odd problems	
11	8/31/2026	Mon	1-7	Transformations of Functions <i>Explore: Using Technology to Transform Functions</i>	All section odd problems	
12	9/1/2026	Tue	1	Module 1 Review		
13	9/2/2026	Wed		Module 1 Exam		
14	9/3/2026	Thu	2-1	Solving Linear Equations and Inequalities <i>Explore: Comparing Linear Equations and Inequalities</i>	All section odd problems	
	9/7/2026	Mon				Labor Day
15	9/8/2026	Tue	2-2	Solving Absolute Value Equations and Inequalities <i>Explore: Find Square Roots Using a Square Model</i>	All section odd problems	Instructor may supplement with Linear Algebra solutions to systems - Gaussian Reduction, etc.) See Unit 4B from Flipped Math Precalculus
16	9/9/2026	Wed	2-3	Equations of Linear Functions	All section odd problems	
17	9/10/2026	Thu	2-4	Solving Systems of Equations Graphically <i>Explore: Solutions of a System of Equations</i>	All section odd problems	
18	9/14/2026	Mon	2-5	Solving Systems of Equations Algebraically	All section odd problems	
19	9/15/2026	Tue			Quiz	
20	9/16/2026	Wed	2-6	Solving Systems of Inequalities <i>Explore: Solutions of Systems of Inequalities</i>	All section odd problems	
21	9/17/2026	Thu	2-7	Optimization with Linear Programming <i>Explore: Using Technology with Linear Programming</i>	All section odd problems	
22	9/21/2026	Mon	2-8	Systems of Equations in Three Variables <i>Explore: Systems of Equations Represented as Lines and Planes</i>	All section odd problems	
23	9/22/2026	Tue				
24	9/23/2026	Wed	2-9	Solving Absolute Value Equations and Inequalities by Graphing	Quiz	
25	9/24/2026	Thu			All section odd problems	
26	9/28/2026	Mon	2	Module 2 Review		
27	9/29/2026	Tue	2	Module 2 Exam		
28	9/30/2026	Wed				
29	10/1/2026	Thu	3-1	Graphing Quadratic Functions <i>Explore: Transforming Quadratic Functions</i>		
30	10/5/2026	Mon				

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31	10/6/2026	Tue	3-3	Complex Numbers <i>Explore: Factoring Prime Polynomials</i>		
32	10/7/2026	Wed			Quiz	
33	10/8/2026	Thu	3-2	Solving Quadratic Equations by Graphing <i>Explore: Roots of Quadratic Equations</i>	All section odd problems	End 1st Qtr.
34	10/12/2026	Mon				
35	10/13/2026	Tue	3-4	Solving Quadratic Equations by Factoring <i>Explore: Finding the Solutions of Quadratic Equations by Factoring</i>	All section odd problems	
36	10/14/2026	Wed	3-5	Solving Quadratic Equations by Completing the Square <i>Explore: Using Algebra Tiles to Complete the Square</i>	All section odd problems	
37	10/15/2026	Thu	3-6	Using the Quadratic Formula and the Discriminant <i>Explore: The Discriminant</i>	Quiz	Parent - Teacher
38	10/19/2026	Mon	3-7	Quadratic Inequalities <i>Explore: Graphing Quadratic Inequalities</i>	All section odd problems	
39	10/20/2026	Tue			All section odd problems	
40	10/21/2026	Wed	3-8	Solving Linear-Nonlinear Systems <i>Explore: Linear-Quadratic Systems</i>		
41	10/22/2026	Thu			All section odd problems	
42	10/26/2026	Mon	3	Module 3 Review		
43	10/27/2026	Tue		Module 3 Exam		
44	10/28/2026	Wed	4-1	Polynomial Functions <i>Explore: Power Functions</i> <i>Explore: Cubic Functions</i>	All section odd problems	
45	10/29/2026	Thu				
46	11/2/2026	Mon	4-2	Analyzing Graphs of Polynomial Functions	All section odd problems	
47	11/3/2026	Tue	4-3	Operations with Polynomials <i>Explore: Multiplying Polynomials</i>	All section odd problems	
48	11/4/2026	Wed				
49	11/5/2026	Thu	4-4	Dividing Polynomials <i>Explore: Using Algebra Tiles to Divide Polynomials</i>	Quiz	
50	11/9/2026	Mon	4-5	Powers of Binomials <i>Explore: Expanding Binomials</i>	All section odd problems	
51	11/10/2026	Tue				
52	11/11/2026	Wed	4	Module 4 Review		
53	11/12/2026	Thu		Module 4 Exam		
54	11/16/2026	Mon	5-1	Solving Polynomial Equations by Graphing <i>Explore: Solutions of Polynomial Equations</i>	All section odd problems	
55	11/17/2026	Tue				
56	11/18/2026	Wed	5-2	Solving Polynomial Equations Algebraically	All section odd problems	
57	11/19/2026	Thu			Quiz	
						Thanksgiving Week
58	11/30/2026	Mon	5-3	Proving Polynomial Identities <i>Explore: Polynomial Identities</i>	All section odd problems	
59	12/1/2026	Tue	5-4	The Remainder and Factor Theorems <i>Explore: Remainders</i>		
60	12/2/2026	Wed	5-5	Roots and Zeros <i>Explore: Roots of Quadratic Polynomials</i>	All section odd problems	
61	12/3/2026	Thu				
62	12/7/2026	Mon	5	Module 5 Review		
63	12/8/2026	Tue		Module 5 Exam		

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64	12/9/2026	Wed	6-1	Operations on Functions <i>Explore: Adding Functions</i>	All section odd problems	
65	12/10/2026	Thu	6-2	Inverse Relations and Functions <i>Explore: Graphs of Inverse Functions</i>		
66	12/14/2026	Mon	6-3	<i>n</i> th Roots and Rational Exponents <i>Explore: Inverses of Rational Functions</i>	All section odd problems	
67	12/15/2026	Tue	6-4	Graphing Radical Functions <i>Explore: Using Technology to Analyze Graphs of Square Root Functions</i>	Quiz	NWEA MOY (estimated date)
68	12/16/2026	Wed				
69	12/17/2026	Thu	6-5	Operations with Radical Expressions	All section odd problems	End 2nd Qtr.
12/18/26-1/3/27				Christmas Break		
70	1/4/2027	Mon	6-6	Solving Radical Equations <i>Explore: Solutions of Radical Equations</i>	All section odd problems	
71	1/5/2027	Tue	6	Module 6 Review		
72	1/6/2027	Wed		Module 6 Exam		
73	1/7/2027	Thu	7-1 + 7-2	Solving Exponential Equations and Inequalities <i>Explore: Solving Exponential Equations</i>	All section odd problems	
74	1/11/2027	Mon	7-3	Special Exponential Functions <i>Explore: Finding the Value of e</i>	All section odd problems	
75	1/12/2027	Tue	7-4	Geometric Sequences and Series <i>Explore: Geometric Sequences as Exponential Functions</i>		
76	1/13/2027	Wed	7-5	Modeling Data <i>Explore: Modeling Exponential Decay</i>	All section odd problems	
77	1/14/2027	Thu				
78	1/18/2027	Mon	7	Module 7 Review		
79	1/19/2027	Tue		Module 7 Exam		
80	1/20/2027	Wed	8-1	Logarithms and Logarithmic Functions <i>Explore: Transforming Logarithmic Functions</i>		
81	1/21/2027	Thu				
1/25/2027		Mon		ML King Holiday		
82	1/26/2027	Tue	8-2	Properties of Logarithms <i>Explore: Logarithmic Expressions and Equations</i>	All section odd problems	
83	1/27/2027	Wed	8-3	Common Logarithms		
84	1/28/2027	Thu			All section odd problems	
85	2/1/2027	Mon	8-4	Natural Logarithms <i>Explore: Using a Scatter Plot to Analyze Data</i>		
86	2/2/2027	Tue	8-5	Using Exponential and Logarithmic Functions	All section odd problems	
87	2/3/2027	Wed				
88	2/4/2027	Thu	8	Module 8 Review	All section odd problems	
89	2/8/2027	Mon	8	Module 8 Exam		
90	2/9/2027	Tue	9-1	Multiplying and Dividing Rational Expressions <i>Explore: Simplifying Complex Fractions</i>	All section odd problems	
91	2/10/2027	Wed	9-2	Adding and Subtracting Rational Expressions <i>Explore: Closure of Rational Expressions</i>		
92	2/11/2027	Thu			All section odd problems	
2/15/2027		Mon		Presidents Day		
93	2/16/2027	Tue	9-3	Graphing Reciprocal Functions <i>Explore: Transforming Reciprocal Functions</i>	Quiz	

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94	2/17/2027	Wed	9-4	Graphing Rational Functions <i>Explore: Analyzing Rational Functions</i>	All section odd problems	
95	2/18/2027	Thu				
96	2/22/2027	Mon	9-5	Variation <i>Explore: Variation</i>	All section odd problems	
97	2/23/2027	Tue	9-6	Solving Rational Equations and Inequalities <i>Explore: Solving Rational Equations</i>	All section odd problems	
98	2/24/2027	Wed	9	Module 9 Review		
99	2/25/2027	Thu		Module 9 Exam		
100	3/1/2027	Mon	10-1	Random Sampling	All section odd problems	
101	3/2/2027	Tue	10-2	Using Statistical Experiments <i>Explore: Simulations and Experiments</i> <i>Explore: Fair Decisions</i>	All section odd problems	
102	3/3/2027	Wed			All section odd problems	
103	3/4/2027	Thu	10-3	Analyzing Population Data		Parent - Teacher
104	3/8/2027	Mon	10-4	Normal Distributions <i>Explore: Probability Distributions</i>		
105	3/9/2027	Tue	10-5	Estimating Population Parameters		
106	3/10/2027	Wed	10	Module 10 Review		
107	3/11/2027	Thu		Module 10 Exam		End 3rd Qtr.
3/12-21/27						Spring Break
108	3/22/2027	Mon	11-1	Angles and Angle Measure <i>Explore: Arc Length</i>	no assignments	
109	3/23/2027	Tue	11-2	Trigonometric Functions of General Angles	All section odd problems	
110	3/24/2027	Wed	11-3	Circular and Periodic Functions <i>Explore: Trigonometric Functions of Special Angles</i>	All section odd problems	
111	3/25/2027	Thu	11-4	Graphing Sine and Cosine Functions	All section odd problems	
112	3/29/2027	Mon				
113	3/30/2027	Tue	11-5	Graphing Other Trigonometric Functions	All section odd problems	
114	3/31/2027	Wed				
115	4/1/2027	Thu	11-6	Translations of Trigonometric Graphs <i>Explore: Using Technology to Analyze Graphs of Trigonometric Functions</i>	Quiz	
116	4/5/2027	Mon	11-7	Inverse Trigonometric Functions	All section odd problems	
117	4/6/2027	Tue				
118	4/7/2027	Wed	12-1	Trigonometric Identities <i>Explore: Pythagorean Identity</i> <i>Explore: Negative-Angle Identity</i>	All section odd problems	
119	4/8/2027	Thu	12-2	Verifying Trigonometric Identities		
120	4/12/2027	Mon	12-3	Sum and Difference Identities	All section odd problems	
121	4/13/2027	Tue				
122	4/14/2027	Wed	12-4	Double-Angle and Half-Angle Identities <i>Explore: Proving the Double-Angle Identity for Cosine</i>	All section odd problems	
123	4/15/2027	Thu			Quiz	
124	4/19/2027	Mon	12-5	Solving Trigonometric Equations	All section odd problems	
125	4/20/2027	Tue				
126	4/21/2027	Wed	11-12	Module 11-12 Review	All section odd problems	
127	4/22/2027	Thu		Module 11-12 Exam		
4/26/2027		Mon				No school
128	4/27/2027	Tue	Conics	Introduction to Conic Sections		Reference materials provided by teacher /
129	4/28/2027	Wed	4.6 A	4.6A Conic Sections - Parabolas	All section odd problems	

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Student Days = 146	Date	DOW	Section	Topic	Assignments	Remarks
130	4/29/2027	Thu				Flipped Math
131	5/3/2027	Mon			All section odd problems	AP Testing (TBD)
132	5/4/2027	Tue	4.6 D	4.6D Conic Sections - Circles		
133	5/5/2027	Wed				
134	5/6/2027	Thu	4.6 B	4.6B Conic Sections - Ellipses	All section odd problems	
135	5/10/2027	Mon				
136	5/11/2027	Tue	4.6 C	4.6C Conic Sections - Hyperbolas	All section odd problems	
137	5/12/2027	Wed				
138	5/13/2027	Thu	4	Conic Sections Review		
139	5/17/2027	Mon	4	Conic Section Exam		
140	5/18/2027	Tue				CMAS + Other Testing?
141	5/19/2027	Wed				NWEA EOY (estimated date)
142	5/20/2027	Thu				
	5/21/2027	Fri				#REF!
143	5/24/2027	Mon		Per Instructions from Administration		Final Exams
144	5/25/2027	Tue				
145	5/26/2027	Wed				
146	5/27/2027	Thu		Student Check Out	Go on summer break!	End 4th Qtr.