

Mr. Heinen - Algebra II Course Syllabus - SY 2025-26						
Student Days 147	Date	DOW	Section	Topic	Assignments	Remarks
1	8/11/2025	Mon		Introduction and mathematics review	Teacher handouts	
2	8/12/2025	Tue			Prep Notebook / Binder	
3	8/13/2025	Wed				
4	8/14/2025	Thu	1-1	Functions and Continuity <i>Explore: Vertical and Horizontal Line Tests</i>	All section odd problems	
5	8/18/2025	Mon	1-2	Linearity, Intercepts, and Symmetry <i>Explore: Symmetry and Functions</i>		
6	8/19/2025	Tue			All section odd problems	
	8/20/2025	Wed				NWEA BOY (estimated date)
	8/21/2025	Thu	1-3	Extrema and End Behavior <i>Explore: End Behavior of Linear and Quadratic Functions</i>	All section odd problems	
7	8/25/2025	Mon	1-4	Sketching Graphs and Comparing Functions <i>Explore: Using Technology to Examine Key Features of Graphs</i>	All section odd problems	
8	8/26/2025	Tue	1-5	Graphing Linear Functions and Inequalities <i>Explore: Shading Graphs of Linear Inequalities</i>	All section odd problems	
9	8/27/2025	Wed	1-6	Special Functions <i>Explore: Using Tables to Graph Piecewise Functions</i>	Quiz	
10	8/28/2025	Thu			All section odd problems	
	9/1/2025	Mon				Labor Day
11	9/2/2025	Tue	1-7	Transformations of Functions <i>Explore: Using Technology to Transform Functions</i>	All section odd problems	
12	9/3/2025	Wed	1	Module 1 Review		
13	9/4/2025	Thu		Module 1 Exam		
14	9/8/2025	Mon	2-1	Solving Linear Equations and Inequalities <i>Explore: Comparing Linear Equations and Inequalities</i>	All section odd problems	
15	9/9/2025	Tue	2-2	Solving Absolute Value Equations and Inequalities <i>Explore: Find Square Roots Using a Square Model</i>		
16	9/10/2025	Wed			All section odd problems	
17	9/11/2025	Thu				
18	9/15/2025	Mon	2-3	Equations of Linear Functions	All section odd problems	
19	9/16/2025	Tue	2-4	Solving Systems of Equations Graphically <i>Explore: Solutions of a System of Equations</i>		
20	9/17/2025	Wed			All section odd problems	
21	9/18/2025	Thu	2-5	Solving Systems of Equations Algebraically	All section odd problems	
22	9/22/2025	Mon	2-6	Solving Systems of Inequalities <i>Explore: Solutions of Systems of Inequalities</i>	Quiz	
23	9/23/2025	Tue			All section odd problems	
24	9/24/2025	Wed				
25	9/25/2025	Thu	2-7	Optimization with Linear Programming <i>Explore: Using Technology with Linear Programming</i>	All section odd problems	
26	9/29/2025	Mon	2-8	Systems of Equations in Three Variables <i>Explore: Systems of Equations Represented as Lines and Planes</i>		
27	9/30/2025	Tue			All section odd problems	
28	10/1/2025	Wed	2-9	Solving Absolute Value Equations and Inequalities by Graphing	Quiz	
29	10/2/2025	Thu			All section odd problems	
30	10/6/2025	Mon				

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31	10/7/2025	Tue	2	Module 2 Review		
32	10/8/2025	Wed		Module 2 Exam		
33	10/9/2025	Thu				End 1st Qtr.
34	10/13/2025	Mon	3-1	Graphing Quadratic Functions <i>Explore: Transforming Quadratic Functions</i>		
35	10/14/2025	Tue				
36	10/15/2025	Wed	3-3	Complex Numbers <i>Explore: Factoring Prime Polynomials</i>		
37	10/16/2025	Thu			Quiz	
	10/17/2025	Fri				Parent - Teacher
38	10/20/2025	Mon	3-2	Solving Quadratic Equations by Graphing <i>Explore: Roots of Quadratic Equations</i>	All section odd problems	
39	10/21/2025	Tue				
40	10/22/2025	Wed	3-4	Solving Quadratic Equations by Factoring <i>Explore: Finding the Solutions of Quadratic Equations by Factoring</i>	All section odd problems	
41	10/23/2025	Thu	3-5	Solving Quadratic Equations by Completing the Square <i>Explore: Using Algebra Tiles to Complete the Square</i>	All section odd problems	
42	10/27/2025	Mon			Quiz	
43	10/28/2025	Tue	3-6	Using the Quadratic Formula and the Discriminant <i>Explore: The Discriminant</i>	All section odd problems	
44	10/29/2025	Wed	3-7	Quadratic Inequalities <i>Explore: Graphing Quadratic Inequalities</i>	All section odd problems	
45	10/30/2025	Thu				
46	11/3/2025	Mon	3-8	Solving Linear-Nonlinear Systems <i>Explore: Linear-Quadratic Systems</i>	All section odd problems	
47	11/4/2025	Tue				
48	11/5/2025	Wed	3	Module 3 Review		
49	11/6/2025	Thu		Module 3 Exam		
50	11/10/2025	Mon	4-1	Polynomial Functions <i>Explore: Power Functions</i> <i>Explore: Cubic Functions</i>	All section odd problems	
51	11/11/2025	Tue				
52	11/12/2025	Wed	4-2	Analyzing Graphs of Polynomial Functions	All section odd problems	
53	11/13/2025	Thu				
54	11/17/2025	Mon	4-3	Operations with Polynomials <i>Explore: Multiplying Polynomials</i>	All section odd problems	
55	11/18/2025	Tue				
56	11/19/2025	Wed	4-4	Dividing Polynomials <i>Explore: Using Algebra Tiles to Divide Polynomials</i>	All section odd problems	
57	11/20/2025	Thu			Quiz	
	11/24/2025	Mon				Thanksgiving Week
	11/25/2025	Tue				
	11/26/2025	Wed				
	11/27/2025	Thu				
68	12/1/2025	Mon	4-5	Powers of Binomials <i>Explore: Expanding Binomials</i>	All section odd problems	
69	12/2/2025	Tue				
70	12/3/2025	Wed	4	Module 4 Review		
71	12/4/2025	Thu		Module 4 Exam		

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72	12/8/2025	Mon	5-1	Solving Polynomial Equations by Graphing <i>Explore: Solutions of Polynomial Equations</i>	All section odd problems	
73	12/9/2025	Tue	5-2	Solving Polynomial Equations Algebraically	All section odd problems	
74	12/10/2025	Wed				
75	12/11/2025	Thu	5-3	Proving Polynomial Identities <i>Explore: Polynomial Identities</i>	All section odd problems	
76	12/15/2025	Mon			Quiz	
	12/16/2025	Tue	5-4	The Remainder and Factor Theorems <i>Explore: Remainders</i>	All section odd problems	NWEA MOY (estimated date)
	12/17/2025	Wed				
77	12/18/2025	Thu				End 2nd Qtr.
	12/22/2025	Mon				Christmas Break
	1/4/2026	Sun				
78	1/5/2026	Mon	5-5	Roots and Zeros <i>Explore: Roots of Quadratic Polynomials</i>	All section odd problems	
79	1/6/2026	Tue				
80	1/7/2026	Wed	5	Module 5 Review		
81	1/8/2026	Thu		Module 5 Exam		
82	1/12/2026	Mon	6-1	Operations on Functions <i>Explore: Adding Functions</i>	All section odd problems	
83	1/13/2026	Tue	6-2	Inverse Relations and Functions <i>Explore: Graphs of Inverse Functions</i>	All section odd problems	
84	1/14/2026	Wed			No Quiz	
85	1/15/2026	Thu	6-3	n th Roots and Rational Exponents <i>Explore: Inverses of Rational Functions</i>	All section odd problems	
	1/19/2026	Mon				ML King Holiday
86	1/20/2026	Tue	6-4	Graphing Radical Functions <i>Explore: Using Technology to Analyze Graphs of Square Root Functions</i>	All section odd problems	
87	1/21/2026	Wed				
88	1/22/2026	Thu	6-5	Operations with Radical Expressions	All section odd problems	
89	1/26/2026	Mon			Quiz	
90	1/27/2026	Tue	6-6	Solving Radical Equations <i>Explore: Solutions of Radical Equations</i>	All section odd problems	
91	1/28/2026	Wed	6	Module 6 Review		
92	1/29/2026	Thu		Module 6 Exam		
93	2/2/2026	Mon	7-1 + 7-2	Solving Exponential Equations and Inequalities <i>Explore: Solving Exponential Equations</i>	All section odd problems	
94	2/3/2026	Tue	7-3	Special Exponential Functions <i>Explore: Finding the Value of e</i>	All section odd problems	
95	2/4/2026	Wed	7-4	Geometric Sequences and Series <i>Explore: Geometric Sequences as Exponential Functions</i>	All section odd problems	
96	2/5/2026	Thu	7-5	Modeling Data <i>Explore: Modeling Exponential Decay</i>	All section odd problems	
97	2/9/2026	Mon	7	Module 7 Review		
98	2/10/2026	Tue		Module 7 Exam		
99	2/11/2026	Wed	8-1	Logarithms and Logarithmic Functions <i>Explore: Transforming Logarithmic Functions</i>	All section odd problems	
100	2/12/2026	Thu				
	2/16/2026	Mon				Presidents Day
101	2/17/2026	Tue	8-2	Properties of Logarithms <i>Explore: Logarithmic Expressions and Equations</i>	All section odd problems	

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102	2/18/2026	Wed				
103	2/19/2026	Thu	8-3	Common Logarithms	All section odd problems	
104	2/23/2026	Mon				
105	2/24/2026	Tue	8-4	Natural Logarithms <i>Explore: Using a Scatter Plot to Analyze Data</i>	All section odd problems	
106	2/25/2026	Wed			Quiz	
107	2/26/2026	Thu	8-5	Using Exponential and Logarithmic Functions	All section odd problems	
108	3/2/2026	Mon				
109	3/3/2026	Tue				
110	3/4/2026	Wed	8	Module 8 Review Module 8 Exam		
111	3/5/2026	Thu	9-1	Multiplying and Dividing Rational Expressions <i>Explore: Simplifying Complex Fractions</i>	All section odd problems	End 3rd Qtr.
112	3/9/2026	Mon				
113	3/10/2026	Tue	9-2	Adding and Subtracting Rational Expressions <i>Explore: Closure of Rational Expressions</i>	All section odd problems	
114	3/11/2026	Wed	9-3	Graphing Reciprocal Functions <i>Explore: Transforming Reciprocal Functions</i>	All section odd problems	
115	3/12/2026	Thu	9-4	Graphing Rational Functions <i>Explore: Analyzing Rational Functions</i>	All section odd problems	Parent - Teacher
	3/13/2026	Fri				
	3/16/2026	Mon				
	3/17/2026	Tue				
	3/18/2026	Wed				
	3/19/2026	Thu				
	3/20/2026	Fri				
116	3/23/2026	Mon	9-5	Variation <i>Explore: Variation</i>	no assignments	
117	3/24/2026	Tue	9-6	Solving Rational Equations and Inequalities <i>Explore: Solving Rational Equations</i>	All section odd problems	
118	3/25/2026	Wed				
119	3/26/2026	Thu	9	Module 9 Review Module 9 Exam		
120	3/30/2026	Mon	10-1	Random Sampling	All section odd problems	
121	3/31/2026	Tue	10-2	Using Statistical Experiments <i>Explore: Simulations and Experiments</i> <i>Explore: Fair Decisions</i>	All section odd problems	
122	4/1/2026	Wed				
123	4/2/2026	Thu	10-3	Analyzing Population Data	All section odd problems	
124	4/6/2026	Mon			Quiz	
125	4/7/2026	Tue	10-4	Normal Distributions <i>Explore: Probability Distributions</i>	All section odd problems	
126	4/8/2026	Wed				
127	4/9/2026	Thu	10-5	Estimating Population Parameters	All section odd problems	
128	4/13/2026	Mon				
129	4/14/2026	Tue	10	Module 10 Review Module 10 Exam		
130	4/15/2026	Wed	11-1	Angles and Angle Measure <i>Explore: Arc Length</i>	All section odd problems	
131	4/16/2026	Thu	11-2	Trigonometric Functions of General Angles	All section odd problems	
132	4/20/2026	Mon			Quiz	
133	4/21/2026	Tue	11-3	Circular and Periodic Functions <i>Explore: Trigonometric Functions of Special Angles</i>	All section odd problems	
134	4/22/2026	Wed	11-4	Graphing Sine and Cosine Functions	All section odd problems	

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135	4/23/2026	Thu				
136	4/27/2026	Mon	11-5	Graphing Other Trigonometric Functions	All section odd problems	
137	4/28/2026	Tue				
138	4/29/2026	Wed	11-6	Translations of Trigonometric Graphs <i>Explore: Using Technology to Analyze Graphs of Trigonometric Functions</i>		
139	4/30/2026	Thu	11-7	Inverse Trigonometric Functions	All section odd problems	
140	5/4/2026	Mon			Quiz	
141	5/5/2026	Tue	12-1	Trigonometric Identities <i>Explore: Pythagorean Identity</i> <i>Explore: Negative-Angle Identity</i>	All section odd problems	
	5/6/2026	Wed	12-2	Verifying Trigonometric Identities	All section odd problems	NWEA EOY (estimated date)
	5/7/2026	Thu				
142	5/11/2026	Mon	12-3	Sum and Difference Identities	All section odd problems	
143	5/12/2026	Tue	12-4	Double-Angle and Half-Angle Identities <i>Explore: Proving the Double-Angle Identity for Cosine</i>	All section odd problems	
	5/13/2026	Wed	12-5	Solving Trigonometric Equations	All section odd problems	Other Testing
	5/14/2026	Thu				
144	5/18/2026	Mon				Final Exams
145	5/19/2026	Tue				
146	5/20/2026	Wed				
				Module 11-12 Review		
147	5/21/2026	Thu	11-12	Module 11-12 Exam	Go on summer break!	End 4th Qtr.