

# Curriculum Map

Grade 11

Content Algebra 2

Teacher(s) Tkachuk

	<b>Time period (month? Weeks? Quarter?)</b>	<b>Focus Standard</b>	<b>Assessment</b>	<b>Essential Question</b>	<b>Resources</b>	<b>Differentiation</b>
<b>Unit 1 Expressions, Equations, and Inequalities</b>	September ~2 weeks 9 days	A-SSE.A.1a A-CED.A.1 A-CED.A.4 A-SSE.A.1b	Homework Quizzes Unit Test	How do variables help you model real-world situations?	Person textbook Internet	On daily basis
<b>Unit 2 Functions, Equations, and Graphs</b>	Sep-October ~2 weeks 12 days	F-IF.B.4 F-IF.B.6 F-IF.C.7a,b F-IF.C.8 F-IF.C.9	Homework Quizzes Unit Test	How can you model data with a linear function?	Person textbook Internet	On daily basis
<b>Unit 3 Linear Systems</b>	October ~2 weeks 11 days	A-CED.A.2,3 A-REI.C.5, 6, 8 A-REI.D.11, 12	Homework Quizzes Unit Test	How are the properties of equality used in the matrix solution of a system of equations?	Person textbook Internet	On daily basis
<b>Unit 4a Quadratic Functions and Equations</b>	Oct-November ~2 weeks 8 days	G-GPE.A.1, 2, 3	Homework Quizzes Unit Test	What is the focus and the directrix of the parabola?	Person textbook Internet	On daily basis

# Curriculum Map

<b>Unit 4b</b> <b>Solving Quadratic Functions and Equations</b>	November ~3 weeks 13 days	N-CN.A.1, 2, 7, N-CN.B.4, 5, 6 F-IF.B.3, 4, 6, 7 A-REI.B.4b A-CED.A.2, 3 A-CED.C.7 A.SSE.A.1A, 2	Homework Quizzes Unit Test	How are the real solutions of a quadratic equation relates to the graph of the related quadratic function?	Person textbook Internet	On daily basis
<b>Unit 5</b> <b>Polynomials and their Functions</b>	December ~3 weeks 14 days	A.SSE.A.1c A.SSE.A.1, 2 A-APR.B.3 A-APR.A. 1, 2 F-IF.B.3,4, 5, 6 F-IF.C.7, 7c, 9 N-CN.C.7, 8 A-REI.D.11 A-APR.D.6	Homework Quizzes Unit Test	For a polynomial equation, how are factors, roots and x-intercepts related?	Person textbook Internet	On daily basis
<b>Unit 6</b> <b>Radical Functions and Rational Exponents</b>	Dec-January ~3 weeks 14 days	A-SSE.A.2 A-CED.A.4 A-REI.A.2 F-IF.C.7b F-IF.C.8 F-BF.A.1b F-BF.B.4a	Homework Quizzes Unit Test	To simplify the nth root of an expression, what must be true about the expression? How are a function and its inverse function related?	Person textbook Internet	On daily basis
<b>Unit 7</b> <b>Exponential and Logarithmic</b>	Jan-February ~3 weeks 15 days	A-SSE.A.1a A-SSE.A.1b A-SSE.B.3c	Homework Quizzes Unit Test	How do you model a quantity that changes	Person textbook Internet	On daily basis

# Curriculum Map

<b>Functions</b>		A-CED.A.1, 2, 3 A-REI.D.11		regularly over time by the same percentage? How are exponents and logarithms related?		
<b>Unit 8 Rational Functions</b>	Feb-March ~2 weeks 11 days	A-SSE.A.1a A-SSE.A.2 A-CED.A.1, 2 A-APR.C.6, 7 A-REI.A.2 A-REI.D.11	Homework Quizzes Unit Test	What kinds of asymptotes are possible for a rational function?	Person textbook Internet	On daily basis
<b>Unit 9 Sequences and Series</b>	March ~2 weeks 8 days	A.SSE.B.4 F-IF.A.3	Homework Quizzes Unit Test	How can you represent a sequence explicitly? recursively? How can you model a geometric/arithmetic sequence?	Person textbook Internet	On daily basis
<b>Unit 10 Probability and Statistics</b>	March-April ~5 weeks 23 days	S-IC.A.1, 2 S-IC.B3, 4, 5, 6 S-ID.A.4	Homework Quizzes Unit Test	What is the difference between experimental	Person textbook Internet	On daily basis

# Curriculum Map

				and theoretical probability? How are measures of central tendency different from standard deviation?		
<b>Unit 11</b> <b>Periodic Functions and Trigonometry</b>	April - May ~3 weeks 11 days	F-IF.B.4 F-IF.C.7e F-TF.A.1, 2 F-TF.B.5	Homework Quizzes Unit Test	How can you model periodic behavior? If you know the value of $\sin x$ , how can you find the other six trigonometric function values?	Person textbook Internet	On daily basis
<b>Unit 12</b> <b>Trigonometric Identities and Equations</b>	May-June ~2 weeks 7 days	F-TF.B.6, 7 F-TF.C.8, 9 G-SRT.C.6, 8 G-SRT.D.9, 10, 11	Homework Quizzes Unit Test	How do you verify that an equation involving the variable $x$ is an identity? How do the trigonometric functions relate to the trigonometric ratios for a right triangle?	Person textbook Internet	On daily basis