

Marysville Public Schools

Algebra 1-2 (Algebra I – 8th Grade)

Curriculum Pacing Guide Semester 1

Weeks	Unit Block	Michigan Course Curriculum Expectations (CCE)	Power Standards - Critical Content - Key Concepts
2	1 (1.1, 1.6, 1.7 emphasis)	L1.1.1, L1.1.2, L1.1.3, L1.1.4, L1.1.5, A1.1.1, A1.1.2, A1.1.3	<ul style="list-style-type: none"> Order of operations Distributive property Combining like terms Expressions/equations
4	2 & 3	L1.1.1, L1.1.2, L1.1.3, L1.1.4, A1.1.1, A1.1.3, A1.2.1, A1.2.3, A1.2.4, A1.2.8, A2.1.4, A2.2.3	<ul style="list-style-type: none"> Solving equations and inequalities (Absolute value, percent problems, also)
3	5	L2.1.4, A1.1.1, A2.1.4, A2.1.6, A2.1.7, A2.2.2, A2.3.1, A2.3.2, A2.3.3, A2.4.1, A2.4.2, A3.1.1, A3.1.2, A3.1.3, A3.1.4, A3.2.1, A3.4.2, A3.4.3, S2.2.1	<p style="text-align: center;">Linear functions</p> <ul style="list-style-type: none"> Slope Slope-intercept form Point-slop form Standard form Horizontal and vertical lines Parallel and perpendicular lines
Marking Period 1			
3	6	L1.1.1, L1.2.2, L1.2.4, L2.1.1, A1.1.3, A1.2.3, S2.2.1, S2.2.2	<p style="text-align: center;">Systems of equations</p> <ul style="list-style-type: none"> Solve by graphing Substitution Elimination Non-unique solutions Linear inequalities
3	4 5.9 11.2 9.4 Chapter 5 Extension 12.2	A1.2.3, A2.1.1, A2.1.3, A2.1.6, A2.1.7, A2.2.2, A2.3.1, A2.3.3, A2.4.1, A2.4.2, A3.1.2, A3.1.3, A3.2.1, A3.3.1, A3.4.2, A3.4.3, A3.5.2, L2.1.2, L2.1.4, S2.1.1, S2.1.2, S2.1.3, S2.1.4	<p style="text-align: center;">Parent Functions and Transformers</p> <ul style="list-style-type: none"> Exponential, linear, quadratic, reciprocal, absolute value functions Translations, reflections, and stretches
3	7.1-7.4 11.1 – 11.4	L1.1.1, L1.1.4, L2.1.2, A2.4.1, A2.4.2, A2.4.3, A3.2.1, A3.2.4, A3.2.5	<p style="text-align: center;">Exponents and Exponential Functions</p> <ul style="list-style-type: none"> Zero and negative exponents Scientific notation Applications of exponential functions (compound interest)
Marking Period 2, End 1st Semester			

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Semester 2

Weeks	Unit Block	Michigan Course Curriculum Expectations (CCE)	Power Standards - Critical Content - Key Concepts
3	7.5-7.8 8.1-8.6	A1.1.1, A1.1.3, A2.2.1, A3.4.1, A3.5.1, A3.5.2, A3.5.3	Polynomials <ul style="list-style-type: none"> Addition/subtraction Foil Factoring: Special cases, “unfoil”, GCF
3	9	A1.2.2, A2.1.6, A2.4.1, A2.4.2, A3.3.1, A3.3.2, A3.3.3, A3.3.4, A3.3.5	Quadratic Functions <ul style="list-style-type: none"> Parabolas Solving $x^2 = k$ Completing the square Quadratic formula
4	11.5-11.9 Pg. 642 Chapter 12 Extension Chapter 11 Extension	A1.1.1, A1.2.6, A2.1.7, A2.4.1, A2.4.2, A2.4.3, A3.2.5, A3.4.1, L1.2.4, L2.1.2	Radicals <ul style="list-style-type: none"> Operations with radicals Simplifying Pythagorean Theorem Distance Formula Trig functions
Marking Period 3			
2	10	S2.1.2* *See skill builders	Probability and Statistics <ul style="list-style-type: none"> Experimental vs. theoretical Counting principles Independent/Dependent events Combinations/Permutations
5	12	L2.1.2, A1.2.2, A2.1.7, A2.3.1, A2.4.1, A2.4.2, A3.4.2	Rational Functions <ul style="list-style-type: none"> Inverse variations Simplifying/solving rational expressions Solving rational equations
1	10 Extension	(Connected to L1.1.2, L1.2.4 and Algebra II)	Matrices <ul style="list-style-type: none"> Adding Multiplying Inverses
Marking Period 4, End of Semester 2			