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	• 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	• 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	Linear functions • 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	Systems of equations • 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	Parent Functions and Transformers • 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	Exponents and Exponential Functions • Zero and negative exponents • Scientific notation • Applications of exponential functions (compound interest)
Marking Period 2, End 1st Semester			

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Curriculum Pacing Guide
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 • 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 • 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 • Operations with radicals • Simplifying • Pythagorean Theorem • Distance Formula • Trig functions
Marking Period 3			
2	10	S2.1.2* *See skill builders	Probability and Statistics • 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 • Inverse variations • Simplifying/solving rational expressions • Solving rational equations
1	10 Extension	(Connected to L1.1.2, L1.2.4 and Algebra II)	Matrices • Adding • Multiplying • Inverses
Marking Period 4, End of Semester 2			