



Mattawan Consolidated Schools Algebra 2 Essential Standards Chart

Standard Description	Common Core Standard	Example of Rigor	Prerequisite Skills	Common Assessment	When Taught?	Extension Standards
What is the essential standard to be learned? Describe in student friendly vocabulary.	Essential Standards	What does proficient look like? Provide an example and/or description.	What prior knowledge, skills, and/or vocabulary is/are needed for a student to master this standard?	What assessments will be used to measure student mastery?	When will this standard be taught?	What will we do when students have learned the essential standard(s)?
Use systems of linear equations to model and describe the solution to the real-world situations.	A.CED.3	A.CED.3	Solve systems by graphing, substitution, & elimination.	Quizzes Tests	A2A: Unit 3 (Holt Ch. 3) A2: Unit 1 (Holt Ch. 3) HA2: Unit 3 (UCSMP Ch. 5)	
Factor a quadratic expression to reveal the zeros of the function.	A.SSE.3a	A.SSE.3a	Factoring quadratic functions	Quizzes Tests	A2A: Unit 5 (Holt Ch. 5) A2: Unit 2 (Holt Ch. 5) HA2: Unit 9 (UCSMP Ch. 11)	

Use the relation $i^2 = -1$ to add, subtract and multiply complex numbers.	N.CN.2	N.CN.2	Order of operations	Quizzes Tests	A2A: Unit 6 (Holt Ch. 5) A2: Unit 3 (Holt Ch. 5) HA2: Unit 4 (UCSMP Ch. 6)	
Solve quadratic equations with real coefficients that have complex solutions.	N.CN.7	N.CN.7	Quadratic Formula	Quizzes Tests	A2A: Unit 6 (Holt Ch. 5) A2: Unit 3 (Holt Ch. 5) HA2: Unit 4 (UCSMP Ch. 6)	
Graph polynomial functions, identifying zeros by factoring and showing end behavior.	F.IF.7c	F.IF.7c	Factoring polynomials Graphing x-intercepts	Quizzes Tests	A2A: Unit 8 (Holt Ch 1, 6) A2: Unit 4 (Holt Ch. 1, 6) HA2: Unit 10 (UCSMP Ch. 9)	
Use the relationship between exponential functions and logarithms to solve problems.	F.BF.5 (+)	F.BF.5+	Recognize and identify key features of an exponential function.	Quizzes Tests	A2B: Unit 2 (Holt Ch. 7) A2: Unit 5 (Holt Ch. 7) HA2: Unit 7 (UCSMP Ch. 9)	

Solve simple rational and radical equations.	A.REI.2	A.REI.2	Solving equations	Quizzes Tests	A2B: Unit 3 & 4 (Holt Ch. 8) A2: Unit 6 (Holt Ch. 8) HA2 (Rational): Unit 1 (UCSMP Ch. 2) HA2(Radical): Unit 6 (UCSMP Ch. 8)	
Rewrite and simplify expressions involving radicals and rational exponents.	N.RN.2	N.RN.2	Properties of exponents	Quizzes Tests	A2B: Unit 4 (Holt Ch. 8) A2: Unit 7 (Holt Ch. 8) HA2: Unit 5 & 6 (UCSMP Ch. 7 & 8)	
Understand how to draw conclusions from a random sample drawn from a population.	S.IC.1	S.IC.1	Fraction, decimal, and percentage conversions	Quizzes Tests	A2B: Unit 5 (Holt Ch. 11) A2: Unit 9 (Holt Ch. 11) HA2: Unit 10	