

Essential Standards Chart

Department: Math

Course: Math 3 Elementary Algebra

Teacher: Beglinger

Essential Standard Description	Example Rigor	Prerequisite Skills	Common Assessment	When Taught?	Extension Standards
<i>What are the essential standards to be learned? Describe in student-friendly language.</i>	<i>What does proficient student work look like? Provide an example and/or description.</i>	<i>What prior knowledge, skills, and/or vocabulary is/are needed for a student to master this standard?</i>	<i>What assessment(s) will be used to measure student mastery?</i>	<i>When will this essential standard be taught? unit/topic/book</i>	<i>What will we do when students have learned the essential standard(s)?</i>
An understanding and use of signed numbers	Student successfully evaluates numeric expressions involving signed integers using the order of operations rules, exponents, and parentheses.				
Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.	-Student can use inverse operations to solve literal equations -Students can solve and graph	Understanding what it means to have a constant or variable.	- Test, quiz, and check quiz		-Explore science problems that require rearranging to solve for a particular variable and use dimensional analysis to understand units.
Solve quadratic equations using factoring and the quadratic formula.	-Students can recognize the number and type of solutions as well as solve	-Vocab: real, imaginary, complex, conjugates, discriminant,	- Test and quizzes		-Compare and contrast the changes in quadratic models having to do with solutions and relative max or mins to fit a particular real-world situation

Be able to find the point where two or more equations are the same.	-Students will be able to solve using substitutions, looking at a graph, or using technology.	-Being able to graph -Being able solve equations	- Test and quizzes		-Students can use matrices to solve systems of linear equations and perform matrix operations
Be able to use factoring, and exponential properties to rewrite expressions.	-Students can recognize common factoring patterns. -Student can use exponent properties	-Being able to use inverse operations -Understanding exponents -Knowing factors and multiples	- Test and quizzes		-Students can relate discontinuities in rational functions to the concept of a limit (SM3B ch8)