SASD Curriculum Map   Content Area: <u>Mathematics</u>   Course: <u>8th Grade Algebra 1</u>

UNIT Title/Focus	Operations with Real Numbers and Expressions	TIME OF YEAR/LENGTH *(E.G. Oct-Nov/3 weeks)*	Feb-March / 6 Weeks Feb-May / 14 Weeks (Study Island Rotations)
DRIVING QUESTION(S)	How will you be able to simplify polynomial expressions, with or without factoring? How will you simplify a rational algebraic expression, including the excluded denominator?		
CONTENT VOCABULARY	**Algebraic Expression; Binomial; Difference of Squares; Excluded Denominator; Factoring; "FOIL" Method; Greatest Common Monomial Factor; Monomial; Polynomial; Rational Algebraic Expression; Trinomial.**		

TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Estimation	**A1.1.1.4.1** Use estimation to solve problems.	Students will be able to use estimation to solve problems.	Repetition/practice Frequent checks for understanding Quizzes In-Class Assignments "Anchor" Flashcards / End of Year "Anchors" Test "Vocabulary" Flashcards / frequent Vocabulary Quizzes DI Activities	Warm-up Openers Study Island Calculator Textbook "Notes" Handouts Worksheets "Peers" helping "Peers"
Polynomial Expressions	**A1.1.1.5.1** Add, subtract, and/or multiply polynomial expressions (express answers in simplest form). <u>Note</u>: Nothing larger than a binomial multiplied by a trinomial.	Students will be able to simplify polynomial expressions using addition, subtraction, and multiplication.		
Factor Algebraic Expressions / Rational Algebraic Expressions	**A1.1.1.5.2** Factor algebraic expressions, including difference of squares and trinomials. <u>Note</u>: Trinomials are limited to the form ax^2+bx+c where a is equal to 1 after factoring out all monomial factors.	Students will be able to factor algebraic expressions, and simplify rational algebraic expressions.		

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TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
	A1.1.1.5.3 Simplify/reduce a rational algebraic expression.			