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

UNIT Title/Focus	Coordinate Geometry/Geometry		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)Sept-Oct / 5 Weeks Sept-May / 34 Weeks (Study Island Rotations)				
DRIVING QUESTION(S)	How will you use rate of change to write, solve and/or interpret an equation in point-slope form, slope-intercept form, and/or standard form? How will you describe the effects of different kinds of transformations? How will the Pythagorean theorem apply to real life situations?						
CONTENT VOCABULARY	Chord; Cone; Congruent; Cylinder; Dilation; Hypotenuse; Point-Slope Form; Pythagorean Theorem; Reflection; "Rise over the Run"; Rotation; Similar; Slope; Slope Formula; Slope-Intercept Form; Sphere; Standard (General) Form; Transformation; Translation; y-intercept.						
ΤΟΡΙϹ	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES		ASSESSMENT	RESOURCES		
Rate of Change	A1.2.2.1.1 Identify, describe, and/or use constant rates of change. A1.2.2.1.2 Apply the concept of linear rate of change (slope) to solve problems.	Students will be able to identify, gene change to solve and graph problems.	rate, and use rates of	Repetition/practice Frequent checks for understanding Quizzes In-Class Assignments "Anchor" Flashcards / End of Year "Anchors" Test "Vocabulary"	Warm-up Openers Study Island Calculator Textbook "Notes" Handouts Worksheets "Peers" helping "Peers"		
Write or Identify a Linear Equation	A1.2.2.1.3 Write or identify a linear equation when given the graph of the line, two points on the line, or the slope and a point on the line. <u>Note</u> : Linear equation may be in point-slope, standard, and/or slope- intercept form. A1.2.2.1.4 Determine the slope and/or <i>y</i> -intercept represented by a linear equation or graph. M08.C-G.1.1.1 Identify and apply properties of rotations,	Students will be able to identify, write interpret an equation in point-slope f form, and/or standard (general) form	orm, slope-intercept	Flashcards / frequent Vocabulary Quizzes DI Activities			

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Object Transformations/ Similarity and Congruence	reflections, and translations. M08.C-G.1.1.3 Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates. M08.C-G.1.1.2 Given two congruent figures, describe a sequence of transformations that exhibits the congruence between them. M08.C-G.1.1.4 Given two similar two- dimensional figures, describe a sequence of transformations that exhibits the similarity between them.	Students will be able to describe a sec transformations using coordinates, sir	-				

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ΤΟΡΙϹ	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES		ASSESSMENT	RESOURCES		
Pythagorean Theorem	M08.C-G.2.1.1 Apply the converse of the Pythagorean theorem to show a triangle is a right triangle. M08.C-G.2.1.2 Apply the Pythagorean theorem to determine unknown side lengths in right triangles in real- world and mathematical problems in two and three dimensions. (Figures provided for problems in three dimensions will be consistent with Eligible Content in grade 8 and below.) M08.C-G.2.1.3 Apply the Pythagorean theorem to find the distance between two points in a coordinate system.	Students will be able to find the side I by applying the Pythagorean theorem a triangle is a right triangle by applyin Pythagorean theorem.	, as well as determine if				

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ΤΟΡΙϹ	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES		ASSESSMENT	RESOURCES		
Volume	M08.C-G.3.1.1 Apply formulas for the volumes of cones, cylinders, and spheres to solve real-world and mathematical problems. Formulas will be provided.	Students will be able to apply formula cones, cylinders, and spheres.	is to find the volumes of				

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