

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.				
TOPIC	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, generate, and use rates of change to solve and graph 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”	
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 y-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, solve, graph, and/or interpret an equation in point-slope form, slope-intercept form, and/or standard (general) form.			

SASD Curriculum Map

Content Area: Mathematics

Course: 8th Grade Algebra 1

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.				
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES		ASSESSMENT	RESOURCES
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 sequence of transformations using coordinates, similarity, and congruence.			

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.				
TOPIC	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 length of a right triangle by applying the Pythagorean theorem, as well as determine if a triangle is a right triangle by applying the converse of the Pythagorean theorem.			

SASD Curriculum Map

Content Area: Mathematics

Course: 8th Grade Algebra 1

UNIT Title/Focus	Coordinate Geometry/Geometry		TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	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.				
TOPIC	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 formulas to find the volumes of cones, cylinders, and spheres.			

SASD Curriculum Map

Content Area: Mathematics

Course: 8th Grade Algebra 1

UNIT Title/Focus	Coordinate Geometry/Geometry		TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	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.				
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES		ASSESSMENT	RESOURCES