

Name _____ Date _____

Geometry - STANDARDS BASED GRADE SHEET

1ST9WKS _____ 2ND9WKS _____ 3RD9WKS _____ 4TH9WKS _____

“The purpose of this report is to communicate current information to parents and students on student progress in achieving skills which promote learning.”

PART I: ESSENTIAL SKILLS

In mathematics, a depth of knowledge is essential for students to be able to progress to the next level. The following chart is an explanation of the depth of knowledge levels and to the right shows your child’s depth of knowledge on the **essential skills** taught in this course.

<u>DEPTH OF KNOWLEDGE (DOK)</u>	<u>EXPLANATION</u>
<i>Level 3: Strategic Thinking</i>	At this level of complexity, students must use planning and evidence with higher order thinking processes that are more abstract. Tasks can include multiple valid responses where students must justify their choices.
<i>Level 2: Skills and Concepts</i>	At this level, a student must make some decisions about his or her approach. The tasks require working with or applying skills with more than one mental step such as comparing, organizing, summarizing, predicting, and estimating..
<i>Level 1: Recall and Reproduction</i>	Tasks at this level require recall of facts or rote application of simple procedures. The task does not require any cognitive effort beyond remembering the right response or formula.
<i>Level 0: Insufficient Understanding</i>	At this level, a student cannot show a sufficient level of understanding of simple procedures.

<u>Semester</u>	<u>ESSENTIAL SKILLS</u>	<u>DOK LEVEL</u>
1st	1. I can apply the midpoint formula to find endpoints and midpoint of a segment.	
	2. I can apply and prove theorems about lines and angles.	
	3. I can compute the area of triangles and rectangles in the coordinate plane.	
	4. I can identify the effect on volume when changing one or more dimensions.	
	5. I can solve problems using properties of triangles and right triangles.	
	6. I can solve problems using triangle similarity.	
2nd	7. I can specify a sequence of transformations that will carry one figure onto another.	
	8. I can apply and prove triangle congruence theorems (ASA,SAS,SSS).	
	9. I can determine whether two figures are similar, congruent, or neither.	
	10. I can explain and use trigonometric ratios.	
	11. I can identify, describe, and use relationships in circles.	
	12. I can determine the center, radius, and graph of a circle given the equation and vice versa.	

ADDITIONAL COMMENTS:

PART II: GRADE LEVEL SKILLS

The following shows your child’s ability to achieve success (explained in the table below) on the **grade level skills** taught in this course.

<u>LEVEL OF SUCCESS</u>	<u>EXPLANATION</u>
<i>Level 4</i>	Exceeding the skill
<i>Level 3</i>	Meeting the skill
<i>Level 2</i>	Progressing toward the skill
<i>Level 1</i>	Not meeting the skill
<i>Level 0</i>	Nothing done to demonstrate learning of the skill

<u>Semester</u>	<u>GRADE LEVEL SKILLS</u>	<u>LEVEL OF SUCCESS</u>
1st	1. I can perform specific geometric constructions.	
	2. I can solve problems using slope criteria for parallel or perpendicular lines.	
	3. I can compute the perimeters of polygons in the coordinate plane.	
	4. I can identify the three-dimensional object generated by rotating a two-dimensional object and the two-dimensional cross-section of a three-dimensional object.	
	5. I can explain how density relates to area and volume and apply it to multiple situations.	
	6. I can explain and apply the formulas for volume and surface area of a cylinder, pyramid, cone and spheres.	
	7. I can apply and prove theorems about triangles.	
	8. I can verify that dilating a figure preserves the properties of dilation.	

2nd	9. I can determine if two figures are similar.	
	10. I can use triangle similarity to prove theorems about triangles.	
	11. I can draw and describe the transformed figure when given a geometric figure and a specific transformation.	
	12. I can explain and use sine and cosine of complementary angles to solve problems.	
	13. I can apply and prove theorems about quadrilaterals.	
	14. I can prove geometric theorems about quadrilaterals algebraically by using coordinate points.	
	15. I can explain the formulas for circumference and area of a circle.	
	16. I can prove that all circles are similar.	
	17. I can prove properties of angles for a quadrilateral inscribed in a circle.	
18. I can determine arc length and sector area of circles.		
19. I can prove geometric theorems about circles algebraically by using coordinate points.		

ADDITIONAL COMMENTS: