

Chapter 1 – Essentials of Geometry

Standards:

- Create and solve problems using angle pair relationships.
- Form conjectures about the properties of points, lines, and planes.
- Devise effective strategies to correctly measure line segments and angles.

Standard 1.1

Create and solve problems using angle pair relationships.

Task: Given a diagram create two problems involving complementary, supplementary or vertical angles. After the problem has been created, solve it, and explain your steps for solving in a journal.

Rubric

	0	1	2	3	4
Steps for Solving	Not Correct	1/4th of the steps are correct	1/2 of the steps are correct	3/4ths of the steps are correct	Every step is done correctly to get to the correct answer.
Solution	Incorrect Solution.	Correct Solution			
Explanation	Explanation is incorrect.	Explanation is $\frac{1}{4}$ correct	Explanation is half correct	Explanation is $\frac{3}{4}$ ths correct.	Explanation is complete, well written and well thought out.

Standard 1.2

Form conjectures about the properties of points, lines, and planes.

Task: Reflect over what is a point, a line and a plane. Make sure you address the idea behind dimensions and properties.

Rubric

	0	1	2	3	4
Math content	Math was incorrect.		Got the idea but missing some key points.		The information is perfect!
Reflection	Reflection is incorrect with no direct proof to what is a point, a line and a plane.	Reflection addresses only one of: point, line, and plane.	Reflection addresses two of: point, line, and plane.	Reflection addresses all three: point, line, and plane. As well as addressing the idea of dimensions or properties.	Reflection addresses all three : point, line, and plane. As well as addressing the idea of dimensions and properties.

Standard 1.3

Devise effective strategies to correctly measure line segments and angles.

Task: Find the length of a segment. Find the measure of an angle.

Rubric

	0	1	2	3	4
Segment Length	Incorrect measurement		Within 2 CM		Perfect measurement
Angle Measure	Incorrect measurement		Within 3 Degrees		Perfect measurement