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Grade Level/Subject: Combined Geometry (HS)

Topic: Mastering Math Vocabulary

Objectives (P.A.S.S.): Geom.

Introduction: This cannot be a one lesson, but a year long process, every year of the students math career.

Instructional process: Several times throughout each chapter new vocabulary words are placed on the board. Instead of the normal warm-up problems, on those days students are to write and define the vocabulary in their own words. They have been informed that these words will be used in their lessons and tests and that they will be expected to understand them without asking for clarification. As the lesson is taught that day and throughout the chapter, I make a point of using those words often and referring students to them or the vocabulary section of their notebooks whenever they question anything that the definition of the word would help them understand. For example, when asked to name the "sides of an angle A", the definition that tells them "an angle is a figure formed by two rays that have the same endpoint" should let them know that they are to name two rays that start at the same endpoint "A".

Closure: This occurs naturally as the lesson begins and the words begin to be used in the teaching.

Assessment: The notebook is checked periodically (at least once per chapter) and a grade is given for having all the vocabulary up to date. Also they are sometimes allowed to use the notebook during their tests and always during homework to assist them.

Modifications/Accommodations: Since this is an honors class, little modification is needed. I do allow a more direct copy of the definitions from students who are ESL than those who are not. Sometimes with lower math classes, such as my Pre-Algebra, the vocabulary may begin as a word search and then ask them to define the words they have found using as short a definition as they can. This seems to help them put it in their own words.

Reflection: I am stressing vocabulary in a much more deliberate way than I have in past years even though it has been an area of concentration in all subjects at Guymon High School for a few years now. I am not having the questions of past years dealing with the wording of questions as much as before and this will hopefully translate to better understanding in any of the standardized tests (EOI, ACT, PSAT, SAT) they take as well.

100 WORDS FOR HIGH SCHOOL COMBINED GEOMETRY CLASS

(listed in alphabetical order)

1. acute angle
2. adjacent angles
3. alternate interior angles
4. altitude
5. angle of depression
6. angle of elevation
7. apothem
8. auxiliary line
9. base of figure (2 or 3-D)
10. biconditional
11. bisector
12. central angle
13. chord
14. circumscribed
15. collinear
16. complementary angles
17. concentric circles
18. conditional
19. congruent figures
20. converse
21. corollary
22. corresponding angles
23. cosine (cos)
24. counterexample
25. deductive reasoning
26. diagonal
27. diameter
28. dilation
29. equiangular triangle
30. equilateral triangle
31. exterior angle
32. function
33. geometric mean
34. hypotenuse
35. hypothesis
36. indirect proof
37. inductive reasoning
38. inscribed
39. intersection
40. inverse of a conditional
41. isosceles triangle
42. kite
43. lateral
44. legs
45. line symmetry
46. locus
47. median of a triangle
48. midpoint
49. minor and major arcs
50. n-gon
51. obtuse angle
52. obtuse triangle
53. octagon
54. opposite rays
55. origin
56. parallel lines
57. pentagon
58. perimeter of a polygon
59. perpendicular bisector
60. perpendicular lines
61. point symmetry
62. polygon
63. postulate (axiom)
64. prism
65. pyramid
66. quadrilateral
67. radius
68. ray
69. rectangular solid
70. reflection
71. regular polygon
72. remote interior angle
73. rhombus
74. right angle
75. rotation
76. rotational symmetry
77. same-side interior angles
78. scale factor
79. scalene triangle
80. secant of a circle
81. sector of a circle
82. similar polygons
83. sine (sin)
84. skew lines
85. slant height
86. space
87. sphere
88. straight angle
89. supplementary angles
90. symmetry
91. tangent (tan)
92. theorem
93. transformation
94. translation
95. transversal
96. trapezoid
97. triangle
98. Venn diagram
99. vertex
100. vertical angles