

Instructional Geometry				
CONCEPT	SKILLS	Chapter	Teaching Notes	STATE GOAL
I. Algebra and Whole Numbers		1		
	1. adding whole numbers		This chapter	6.C.5
	2. subtracting whole numbers		will be used to assess	6.C.5
	3. estimating Sums and Differences		basic math skills for	6.C.5
	4. multiplying whole numbers		student I.E.P. goals and	6.C.5
	5. dividing whole numbers		math interventions.	6.C.5
	6. estimating products and quotients			6.C.5
	7. arithmetic and algebra			6.C.5
	8. representing numbers using letters			6.C.5
	9. replacing variables			6.C.5
				6.B.4
				6.C.4
II. Using Decimals		2		
	1. place value			6.D.4 / 7.C.4c
	2. comparing and rounding decimals			6.D.4 / 7.A.4a / 7.A.4b
	3. adding and subtracting decimals			6.D.4 / 7.A.4a / 7.A.4b
	4. multiplying decimals by powers of 10			6.D.4 / 6.B.5 / 8.B.5
	5. multiplying decimals			6.D.4 / 6.B.5
	6. dividing decimals by powers of 10			6.D.4 / 8.A.4a / 8.B.4a / 6.B.5
	7. dividing decimals			6.D.4 / 8.A.4a
	8. decimals and fractions			6.D.4 / 8.A.4a
	9. repeating decimals			6.D.4 / 8.A.4a
	10. renaming percents to decimals			6.D.4
	11. evaluating expressions with decimals			6.D.4
				6.B.4
				6.C.4
III. Number Theory		3		
	1. divisibility rules			8.A.4b / 6.B.5 / 8.A.5
	2. prime and composite numbers			8.A.4b / 8.A.5
	3. greatest common divisor			8.A.4b / 8.A.5 / 8.B.5
	4. factoring			6.A.4 / 8.A.4b / 8.A.5 / 8.B.5
	5. least common multiple			8.A.4b / 8.A.5 / 8.B.5
	6. scientific notation			8.A.4b / 6.B.5 / 8.A.5 / 8.B.5
				6.B.4 / 8.A.5 / 8.B.5

				6.C.4
IV. Rational Numbers and Fractions		4		
	1. proper fractions			6.C.5
	2. improper fractions and mixed numbers			6.C.5 / 7.C.5a
	3. equivalent fractions			6.C.5
	4. simplest form			6.C.5
	5. comparing and ordering fractions			6.C.5
	6. fractions like denominators			6.C.5
	7. fraction unlike denominators			6.D.4 / 8.B.4a
	8. subtracting fractions with regrouping			6.D.4
	9. multiplying fractions and mixed numbers			6.C.5
	10. dividing fractions and mixed numbers			6.C.5 / 7.C.5a
				6.B.4
				6.C.4
V. Basics Operations and Rational Numbers		5		
	1. the order of operations			6.C.5
	2. evaluating algebraic expressions			6.C.5
	3. equations solution by substitution			6.C.5
	4. solving addition equation			6.A.4 / 8.B.4a
	5. solving subtraction equations			6.C.5
	6. complex fractions			6.C.5
	7. simplifying by addition			6.C.5
	8. simplifying by subtraction			6.C.5 / 7.C.5a
	9. multiplying rational expressions			6.C.5
				6.B.4
				6.C.4
VI. Ratios, Proportions, and Percent		6		
	1. ratios			6.D.4 / 6.D.5
	2. proportions			6.D.4 / 7.C.4a / 6.D.5
	3. ratios and proportions			6.D.4 / 7.C.4a / 6.D.5
	4. percents and fractions			6.D.4 / 6.D.5
	5. percents and decimals			6.D.4 / 8.B.4a
	6. finding the percent of the number			6.D.4
	7. finding the percent			6.C.5
	8. percent of increase and decrease			6.C.5
	9. formulas and percents			6.C.5
				6.B.4

				6.C.4
VII. Integers		7		
	1. the real number line and integers			7.A.4b / 8.B.4b
	2. comparing integers greater than			8.B.4b
	3. comparing integers less than			8.B.4b
	4. even and odd integers			7.A.4b / 8.B.4b
	5. adding positive integers			7.A.4b / 8.B.4b
	6. adding negative integers			8.B.4b
	7. subtracting positive and negative integers			8.B.4a / 8.B.4b
	8. multiplying by positive integers			8.B.4b
	9. multiplying by negative integers			8.B.4b
	10. dividing positive and negative integers			7.A.4b / 8.B.4b
				6.B.4
				6.C.4
VIII. Exponents, Square Roots, and the Pythagorean Theorem		8		
	1. exponents			6.C.5 / 8.B.5
	2. multiplying with exponents			8.B.4a / 8.B.5
	3. dividing with exponents			6.C.5 / 8.B.5
	4. squares			6.C.5 / 7.C.5a / 8.B.5 / 9.A.5 / 9.C.5b
	5. cubes			7.A.4a / 7.C.5a / 8.B.5 / 9.A.5 / 9.C.5b
	6. square roots			6.C.5 / 7.C.5a / 8.B.5
	7. irrational numbers and square roots			6.C.5
	8. Pythagorean theorem			6.C.5
	9. more about triangles			6.C.5 / 7.C.5a
				6.B.4
				6.C.4
IX. Equations from Geometry		9		
	1. perimeters of polygons			7.A.4a / 7.A.4b / 9.B.4 / 6.B.5 / 9.A.5 /
	2. perimeters of regular polygons			7.A.4b / 9.B.4 / 6.B.5 / 8.C.5 / 9.A.5 / 9
	3. perimeters of irregular polygons			7.A.4b / 9.B.4 / 6.B.5 / 8.C.5
	4. areas of rectangles and squares			7.A.4a / 7.A.4b / 9.B.4 / 6.B.5 / 8.C.5 /
	5. areas of triangles			6.A.4 / 7.A.4b / 9.B.4 / 6.B.5 / 8.C.5 / 9
	6. areas of trapezoids and parallelograms			7.A.4b / 9.B.4 / 9.C.5b
	7. areas of irregular polygons			7.A.4b / 8.B.4a / 8.B.4a / 9.B.4 / 9.C.5b
	8. volume			7.A.4a / 7.A.4b / 9.B.4 / 9.C.5b
	9. circumferences and areas of circles			7.A.4a / 7.A.4b / 9.B.4 / 9.A.5
	10. volumes of cylinders and spheres			7.A.4a / 7.A.4b / 9.B.4 / 9.A.5

				6.B.4 / 9.C.5b
				6.C.4
X. Graphing		10		
	1. graphing equalities			8.B.4a
	2. graphing inequalities			8.B.4a / 8.D.4
	3. graphing solutions of equalities			8.B.4a / 8.D.4 / 9.C.5b
	4. graphing solutions of inequalities			8.B.4a / 8.D.4 / 9.C.5b
	5. the coordinate system locating points			8.B.4a / 9.C.5b
	6. the coordinate system plotting points			8.B.4a / 9.C.5b
	7. determining the points of the line			8.B.4a
	8. graphing lines			8.B.4a
	9. the slope of the line			7.B.4 / 8.B.4a
	10. formula for the slope of the line			7.B.4 / 8.B.4a
	11. the slope-intercept form of a line			7.B.4 / 8.B.4a / 9.C.5b
				6.B.4
				6.C.4
XI. Geometry		11		
	1. angles and angle measures			7.A.4b / 9.B.4
	2. identifying and classifying angles			9.B.4
	3. complementary and supplementary angles			9.B.4
	4. angle measure in a triangle			7.A.4a / 7.A.4b / 9.B.4 / 7.C.5a / 9.A.5
	5. naming triangles			7.A.4a / 7.A.4b / 9.B.4
	6. congruent triangles			9.B.4
	7. similar triangles			6.D.4 / 8.D.4 / 9.B.4 / 9.D.4
	8. parallelograms			6.D.4 / 8.D.4 / 9.B.4 / 10.A.4a / 10.B.4
	9. quadrilaterals and diagonals			6.D.4 / 9.B.4 / 10.A.4a / 10.A.4c / 10.B.4
	10. polygons and diagonals			9.B.4 / 10.A.4a / 10.A.4c / 10.B.4
				6.B.4 / 10.A.4a / 10.A.4c / 10.B.4
				6.C.4
XII. Data, Statistics, and Probability		12		
	1. bar graphs			8.B.4a / 10.A.4c / 10.B.4 / 10.B.5
	2. circle graphs			8.B.4a / 10.A.4c / 10.B.4 / 10.B.5
	3. frequency tables			8.B.4a / 10.A.4c / 10.B.4 / 10.B.5
	4. mean			8.B.4a / 9.C.4a / 9.C.4b / 10.A.4c / 10.
	5. median			8.B.4a / 10.A.4b / 10.A.4c / 10.B.4 / 10.
	6. mode			8.B.4a / 10.A.4b / 10.A.4c / 10.B.4 / 10.
	7. range			8.B.4a / 10.A.4b / 10.A.4c / 10.B.4 / 10.

	8. box-and-whiskers plots			6.D.4 / 8.B.4a / 9.C.4a / 9.C.4b / 10.A.
	9. the probability fraction			8.B.4a / 10.A.4c / 10.B.4 / 10.C.4a / 10.C.4b
	10. the fundamental principle of counting			8.B.4a / 9.C.4a / 9.C.4b / 10.A.4c / 10.A.4d
				6.B.4
Current Text:				6.C.4
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9.C.5b

9.C.5b

9.A.5 / 9.C.5b

9.A.5 / 9.C.5b

b

/9.C.5b

/9.C.5b
3.4

.B.4 / 10.B.5
.B.5
.B.5
.B.5

4b / 10.A.4c / 10.B.4 / 10.B.5

.C.4c / 10.B.5 / 10.C.5a / 10.C.5b / 10.C.5c

.B.4 / 10.C.4a / 10.B.5 / 10.C.5a / 10.C.5b / 10.C.5c