

Teacher: _____

School Year: _____

Fifth Grade Objective Sheet

Student: _____

Objectives:	1	2	3	4	Comments:
NUMBER AND OPERATIONS					
1. Analyze relationships among numbers and the four basic operations, compute fluently, and make reasonable estimates.					
a. Compare and order integers, decimals to the nearest thousandths, like and unlike fractions, and mixed numbers using $>$, $<$, and $=$. (DOK 1)					
b. Compose and decompose seven-digit numbers and decimals through thousandths in word, standard, and expanded forms. (DOK 1)					
c. Identify factors and multiples of whole numbers. (DOK 1)					
d. Model and distinguish between prime and composite numbers. (DOK 1)					
e. Model and identify equivalent fractions including conversion of improper fractions to mixed numbers and vice versa. (DOK 1)					
f. Add, subtract, multiply, and divide (with and without remainders) using non-negative rational numbers. (DOK 1)					
g. Estimate sums, differences, products, and quotients of non-negative rational numbers to include strategies such as front-end rounding, benchmark numbers, compatible numbers, and rounding. (DOK 2)					
ALGEBRA					

2. <i>Explain and analyze number relationships and functions using algebraic symbols, and demonstrate an understanding of the properties of the basic operations.</i>					
a. Determine the value of variables in equations and inequalities, justifying the process. (DOK 2)					
b. Devise a rule for an input/output function table, describing it in words and symbols. (DOK 2)					
c. Apply the properties of basic operations to solve problems: (DOK 2) ·Zero property of multiplication ·Commutative properties of addition and multiplication ·Associative properties of addition and multiplication ·Distributive properties of multiplication over addition and subtraction ·Identity properties of addition and multiplication					
d. Apply inverse operations of addition/subtraction and multiplication/division to problem-solving situations. (DOK 2)					
GEOMETRY					
3. <i>Develop mathematical arguments about geometric relationships and describe spatial relationships using coordinate geometry.</i>					
a. Analyze and describe the characteristics of symmetry relative to classes of polygons (parallelograms, triangles, etc.). (DOK 2)					
b. Explain the relationships between coordinates in each quadrant of the coordinate plane. (DOK 2)					

c. Describe the characteristics, including the relationship of the pre-image and the image, of each type of transformation (rotations [turns], reflections [flips], and translations [slides]) of two-dimensional figures. (DOK 2)					
d. Construct and analyze two- and three-dimensional shapes to solve problems involving congruence and symmetry. (DOK 3)					
e. Label ordered pairs in the coordinate plane. (DOK 1)					
MEASUREMENT					
<i>4. Develop concepts and apply appropriate tools and techniques to determine units of measure.</i>					
a. Estimate and measure length to nearest millimeter in the metric system and one-sixteenth inch in the English system. (DOK 2)					
b. Convert units within a given measurement system to include length, weight/mass, and volume. (DOK 1)					
c. Develop, compare, and use formulas to estimate and calculate the perimeter and area of rectangles, triangles, and parallelograms. (DOK 2)					
d. Select and apply appropriate units for measuring length, mass, volume, and temperature in the standard (English and metric) systems. (DOK 1)					
DATA ANALYSIS & PROBABILITY					
<i>5. Interpret and analyze data and make predictions.</i>					
a. Use the mean, median, mode, and range to analyze a data set. (DOK 2)					

b. Compare data and interpret quantities represented on tables and graphs, including line graphs, stem-and-leaf plots, histograms, and box-and-whisker plots to make predictions, and solve problems based on the information. (DOK 2)

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