Teacher:_____   **School Year:**_____

Third Grade Objective Sheet   **Student:**_____

Objectives:	1	2	3	4	Comments:
NUMBER AND OPERATIONS					
1. Understand and represent number relationships among numbers and the four basic operations. Compute fluently and make reasonable estimates.					
a. Compose and decompose four-digit whole numbers with representations in words, physical models, and expanded and standard forms. (DOK 1)					
b. Compare and order four-digit numbers using <, >, and =, and justify reasoning. (DOK 2)					
c. Estimate sums and differences of whole numbers to include strategies such as rounding. (DOK 2)					
d. Identify and model representations of fractions (halves, thirds, fourths, fifths, sixths, and eighths). (DOK 1)					
e. Add (up to three addends) and subtract four-digit whole numbers with and without regrouping. (DOK 1)					
f. Model multiplication using arrays, equal-sized groups, area models, and equal-sized moves on the number line. (DOK 2)					
g. Model division with successive or repeated subtraction, partitioning, and sharing. (DOK 2)					
ALGEBRA					
2. Explain, analyze, and generate patterns, relationships, and functions using algebraic symbols.					
a. Create, describe, and extend growing and repeating patterns with physical materials and symbols including numbers. (DOK 2)					

b. Determine the value of missing quantities or variables within equations or number sentences, and justify the process used. (DOK 2)				
c. Use real number properties to develop multiple algorithms and to solve problems. (DOK 2) · Associative property of addition · Commutative property of addition · Identity property of addition				
d. Model and identify the inverse relationships of addition/subtraction. (DOK 2)				
e. Create models for the concept of equality, recognizing that the equal sign (=) denotes equivalent terms such that 4 + 3 = 7, 4 + 3 = 6 + 1 or 7 = 5 + 2. (DOK 1)				
GEOMETRY				
3. Describe, compare, and contrast two- and three-dimensional shapes and relationships.				
a. Describe, compare, analyze, and classify two-dimensional shapes by sides and angles. (DOK 1)				
b. Explain and describe the process of decomposing, composing, and transforming polygons. (DOK 2)				
c. Create three-dimensional shapes (prisms and pyramids) from two-dimensional nets, and create two-dimensional nets from prisms and pyramids. (DOK 2)				
MEASUREMENT				
4. Measure and explain the measurable attributes of objects, units, systems, and processes.				
a. Develop and use methods to find perimeter of polygons and to solve problems involving perimeter. (DOK 2)				

b. Estimate and measure length using fractional parts to the nearest ½ inch in the English system. (DOK 2)					
c. Measure capacity, weight/mass, and length in both English and metric systems of measurement. (DOK 1)					
DATA ANALYSIS AND PROBABILITY					
5. Interpret and analyze data. Explore basic concepts of probability.					
a. Compare data and interpret quantities represented on tables and different types of graphs (line plots, pictographs, and bar graphs), make predictions, and solve problems based on the information. (DOK 3)					
b. Analyze, predict, and model the number of different combinations of two or more objects and relate to multiplication. (DOK 2)					