Meeting the Common Core State Standards

**Each lesson and student activity worksheet meets one or more of the following standards
from the Common Core State Standards Initiative for Mathematics: Grade 4**

OPERATIONS AND ALGEBRAIC THINKING		
Represent and solve problems involving multiplication and division		
CCSS#	**Standard**	**Page Number**
4.OA.A.1	Interpret a multiplication question as a comparison (eg. 35 = 5x7 so 35 is 5 times as many as 7).	26, 79, 81, 82
4.OA.A.2	Multiply or divide to solve word problems.	25, 80
Generate and analyze patterns		
CCSS#	**Standard**	**Page Number**
4.OA.C.5	Generate a number or shape pattern that follows a given rule.	74, 75, 76, 77, 78, 86
NUMBER OPERATIONS AND BASE TEN		
Generalize place value understanding for multi-digit whole numbers		
CCSS#	**Standard**	**Page Number**
4.NBT.A.1	Recognize that a digit in one place represents 10 times what it is in the place to its right (700 – 70 = 10).	8, 9, 10, 28
4.NBT.A.2	Read and write multi-digit whole numbers as whole numbers, names and expanded form. Compare numbers using <, >, and = .	11, 12
4.NBT.A.3	Use place value understanding to round whole numbers to any place.	22, 23
Use place value understanding and properties of operations to perform multi-digit arithmetic		
CCSS#	**Standard**	**Page Number**
4.NBT.B.4	Fluently add and subtract multi-digit whole numbers.	17, 18
4.NBT.B.5	Multiply up to a four-digit number by a one-digit number.	29
4.NBT.B.6	Find whole number quotients and remainders (up to four-digit dividend and one-digit divisor).	30, 31
NUMBERS AND OPERATIONS - FRACTIONS		
Extend understanding of fraction equivalence and ordering		
CCSS#	**Standard**	**Page Number**
4.NF.A.1	Understand and explain equivalent fractions. Generate examples of equivalent fractions.	36
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers		
CCSS#	**Standard**	**Page Number**
4.NF.B.3	Understand a fraction a/b with a>1 as a sum of fractions 1/b (sum of equal parts).	32, 33

4.NF.B.3a	Understand the addition and subtraction of fractions.	37
4.NF.B.3b	Decompose a fraction into a sum of fraction (use visual model).	34, 35

Understand decimal notation for fractions and compare decimal fractions		
CCSS#	**Standard**	**Page Number**
4.NF.C.5	Express a fraction with denominator 10 as an equivalent fraction with denominator 100.	38
4.NF.C.6	Use decimal notation for fractions with denominators 10 or 100.	13, 14
4.NF.C.7	Add and subtract decimal numbers. Compare two decimals to hundredths. Use <, >, =.	15, 19, 20

MEASUREMENT AND DATA

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit		
CCSS#	**Standard**	**Page Number**
4.MD.A.1	Know relative sizes of measurement units within one system of units (including metric system).	27, 39, 49, 51, 53, 54
4.MD.A.2	Use the four operations to solve word problems involving distances, time, volume, mass, money. (use diagrams, number lines).	16, 21, 24, 40, 41, 50, 52, 55, 56, 57, 58
4.MD.A.3	Apply area and perimeter formulas for real life and mathematical problems.	42, 43, 44, 45, 46, 47, 48

Represent and interpret data		
CCSS#	**Standard**	**Page Number**
3.MD.B.3	Generate data and create graphs (picture, bar, line) to represent data. Interpret and compare data results.	83, 84, 85, 87, 88, 89, 90, 91

Geometric measurement: understand concepts of angle and measure angles		
CCSS#	**Standard**	**Page Number**
4.MD.C.5	Recognize angles as geometric shapes. Understand measurement of angles.	59
4.MD.C.5a	Understand that an angle that turns 1/360 of a circle is a "one-degree angle: and is used to measure angles.	60

GEOMETRY

Draw and identify lines and angles, and classify shapes by properties of their lines and angles		
CCSS#	**Standard**	**Page Number**
4.G.A.1	Draw points, lines, line segments, rays, angles and parallel and perpendicular lines. Identify these in two-dimensional figures.	61, 64, 67, 68, 69, 70
4.G.A.2	Classify two-dimensional figures with regard to lines and angles. Identify right angles.	62, 63, 65, 66
4.G.A.3	Identify line-symmetric figures and draw lines of symmetry.	71, 72, 73