

## **McRuffy Third Grade Math**

### **Box 1: Class Description**

This year-long course covers the Third Grade math content noted below. Weekly certificated contact will be completed through direct personal contact with an HQ/certificated teacher in an on-site HC class. At least one State Standard will be covered in this course.

### **Box 2: Learning Materials**

The curriculum, books, supplies, materials, web-sites, and other sources used for this course are: McRuffy Third Grade Math, paper, and pencil.

\*Make additions or deletions as you see fit.

### **Box 3: Learning Goals/Performance Objectives**

The McRuffy Third Grade Math Program has 161 lessons, to be completed during the school year, approximately 1 lesson per day, leaving 19 extra days. The 19 days will be spent giving more time to concepts not easily mastered, reviewing at the start of the year and end of year, and with enrichment activities that show themselves to be of value. The lessons are broken into 8 units. Unit 1 and 2 will be completed in early October and early November, Unit 3 & 4 at mid-December and the end of January, Unit 5 & 6 at the end of February and end of March, Unit 7 & 8 in mid-May and mid-June. An approximate schedule of lesson coverage is below. Specific math content covered for the year in each unit, is below that.

September: Lessons 1 – 15

October: Lessons 16 – 35

November: Lessons 36 - 52

December: Lessons 53 – 66

January: Lessons 66 – 84

February: Lessons 85 - 102

March: Lessons 103 – 118

April: Lessons 119 – 136

May: Lessons 137 - 152

June: Lessons 153 - 161

UNIT 1: Addition facts, Multiplication, Ten thousands place value, Commutative property, Subtraction facts, Even and odd, Two-digit addition, Three-digit addition, Groups as fractions, Skip counting 2, 5, 10, 100, Geometric designs, Number families, Circles as fractions, Multiplication facts, Counting coins, Patterns, Adding time to clocks, Two-digit subtraction, Story problems, Graph reading, Add three two-digit numbers, Test 1.

UNIT 2: Multiplication facts, Subtract two-digit numbers, Add three-digit numbers, Recognize attributes, Add three two-digit numbers, Add time to clocks, Story problems, Inequalities, Math, Machine (function table), Coin counting, Fractions, Complete a table,

Measuring centimeters, Cardinal points, Multiple operation problems., Place value, Patterns, Interpret graph, Subtraction facts, Geometric designs, 3 Dimensional shape names, Estimating halves, Symmetry, Skip count 1000, Test 2.

UNIT 3: Fractions, Reading clocks, Skip counting, Subtraction skills, Addition (multiple numbers), Subtraction two three-digit, Centimeters, Thermometer, Inequalities, Coin counting, Calculator skills, Story problems, Roman numerals, Missing multipliers, Compare groups, Perimeter, Area, Multiplication, Math Machine, Place value, Geometric designs, Add & Subtract monetary amounts, Test 3.

UNIT 4: Multiply by 10, Area & perimeter, Missing multipliers, Division terms, Division, Graphing, Roman numerals, Coin counting, Subtraction fact review, Add & subtract fractions, Subtract time, Identify shapes, Geometric designs. Multiple operation problems, Inequalities, Story problems, Collect data, Add & subtract monetary amounts, Attributes, Coordinates (letter, number), Test 4.

UNIT 5: Division, Clock reading, Math Machine, Coin counting, Multiplication, Number Patterns Inches and Centimeters, Story problems, Addition, Attributes, Multiple operations, Inequalities, Geometric designs, Add & Subtract fractions, Rounding to 100, Coordinates, Creating a graph, Estimate addition and subtractions, Thermometers, Division with remainders, Roman numerals, Calendar, Test 5.

UNIT 6: Division, Coin counting, Math Machines, Coordinates, Geometric designs, Graphing, Story problems, Inequalities, Choosing measuring device, Add & subtract monetary amounts, Regroup minutes as hours and minutes, Recognize sequences in designs, Write coordinates, Make rules for number groups, Multiply 3-digit numbers by 1-digit, Compare fractions, Complete a table, Associative property, Estimate times, Find missing signs, Fractions on a ruler, Write story problems, Multiplying 2 two-digit numbers, Test 6.

UNIT 7: Add & subtract five-digits, Decimals tenths, Time, Multiply two-two-digit numbers, Match patterns, Round to 100, Math Machine, Inequalities, Add and subtract time, Multiply four-digit numbers by one-digit, Thermometers, Coordinates (number, number), Multiple operations, Venn diagrams, Story problems, Graphs, Geometric designs, Compare fractions, Division, Make change, Add & subtract decimals, Time to minute, Missing signs, Match patterns, Roman numerals, Symmetry, Test 7.

UNIT 8: Add & subtract multiple numbers, Roman numerals, Convert units, Compare fractions, Round dollars, Estimate time, Symmetry, Story problems, Making change from up to \$100, Compare degrees C and F, Multiplication, Division, Graphing, Division with bracket, Decimals hundredths, Geometric designs, Attributes, Place value to millions, Test 8.

#### **Box 4: Learning Activities**

Each day the student will complete a math lesson. They will have a new lesson/concept/learning explained, demonstrated/taught. They'll complete practice problems to ensure understanding of content. They will have independent

practice/homework over those concepts. They will re-do and correct any problem which they missed. When review is needed, we'll not learn a new concept but take the time needed to re-teach or reinforce needed concepts.

\*Make additions or deletions as you see fit.

### **Box 5 Progress Criteria/ Methods of Evaluation**

Student monthly progress evaluation is made on the basis of weekly certificated contact, work samples, communications with students, communications with parents, and performance in on-site classes. It is electronically communicated to parents via WINGS. It is our goal that the student will accomplish approximately 10% of the goals of this course each month, September through June. The level of mastery expected is 70% or higher to progress. Methods of evaluation will include but are not limited to those below, under the direction of an HQ teacher:

- \* observation and/or correction of daily and/or weekly work and progress
  - \* daily or weekly discussion of assignments, readings, writings
  - \* correction of work done incorrectly
  - \* portfolio kept of student work, at least weekly
  - \* standardized testing (iReady, state assessments, Iowa Tests, etc.)
- \*Make additions or deletions to the asterisk items as you see fit.

### **Box 6 Weekly Hours**

#### **5.0 hours**

Please estimate the number of hours your student will work on this course each week.