

McRuffy Fourth Grade Math

Box 1: Class Description

This year-long course covers the Fourth 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 Fourth Grade Math, paper, and pencil.

*Make additions or deletions as you see fit.

Box 3: Learning Goals/Performance Objectives

The McRuffy Fourth Grade Math Program has 160 lessons, to be completed during the school year, approximately 1 lesson per day, leaving 20 extra days. The 20 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.

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 - 160

Particular emphasis for the 4th grade includes:

- Division skills, • Fractions, • Decimals, • Mental math, and the • Geometry of angles and triangles

Important concepts include:

- Addition and subtraction (up to ten-digits) with regrouping including decimals
- Multiplication up to 2-digit x 4-digits including decimals
- Division facts and long division, including decimals
- Reading thermometers, • Measuring, • Making change, • Counting change from dollar amounts
- Place value from decimals to ten-millions, • Adding and subtracting fractions with unlike denominators, • Geometric reasoning, • Adding and subtracting times including AM and PM
- Applying math properties including distributive, commutative, and associative
- Graphing equations
- Areas and perimeters of irregular shapes
- Areas of triangles
- Geometric vocabulary for lines, angles, solids, quadrilaterals, and triangles
- Decimal to fraction equivalents
- Patterns of change
- Unit conversions for volume, length, weight, and time
- Negative numbers
- Variables
- Charts and graphs including coordinate systems
- Estimating

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.