Saxon Math 5/4

Class Description:
Saxon mathematics is based on the principle of developing math skills incrementally and reviewing past skills daily. It also incorporates regular and cumulative assessments. Each of the 120 daily lessons includes warm-up activities, teaching of the new concept, and practice of new and previous material. Saxon 5/4 includes place value, regrouping, adding, subtracting, multiplication, division, fractions, factors, etc.

Learning Materials: Main Curriculum:
- Saxon Math 5/4 Solutions Manual
- Saxon Math 5/4 Tests and Worksheets
- Saxon Math 5/4 Textbook

Learning Goals/Performance Objectives:
4.1.B Identify factors and multiples of a number.
4.1.C Represent multiplication of a two-digit number by a two-digit number with place value models.
4.1.D Multiply by 10, 100, and 1,000.
4.1.E Compare the values represented by digits in whole numbers using place value.
4.1.F Fluently and accurately multiply up to a three-digit number by one- and two-digit numbers using the standard multiplication algorithm.
4.1.I Solve single- and multi-step word problems involving multi-digit multiplication and verify the solutions.
4.2.C Convert a mixed number to a fraction and vice versa, and visually represent the number.
4.2.D Convert a decimal to a fraction and vice versa, and visually represent the number.

Learning Activities: The student will complete approximately 13-14 lessons each month. Every 10th lesson is an investigation, and after every 5 lessons there is an assessment. The student will also do timed tests and any worksheets/activities that go with the lessons. The student will learn a new aspect of a skill in each lesson and then the rest of the lesson will review previous lessons so that the concepts become solid.

Saxon Math 5/4 TOC
Lesson 1: review of addition, addition stories, missing addends part 1
Lesson 2: missing addends part 2
Lesson 3: sequences, digits
Lesson 4: place value
Lesson 5: ordinal numbers, months of the year
Lesson 6: review of subtraction, addition and subtraction fact families
Lesson 7: writing numbers through 999
Lesson 8: adding money
Lesson 9: adding and regrouping
Lesson 10: even numbers, odd numbers
Investigation 1— number lines
Lesson 11: addition stories with missing addends
Lesson 12: missing numbers in subtraction
Lesson 13: adding three digit numbers
Lesson 14: subtracting two digit and three digit numbers, missing two digit addends
Lesson 15: subtracting two digit numbers with regrouping
Lesson 16: expanded form, more on missing numbers in subtraction
Lesson 17: adding columns of numbers with regrouping
Lesson 18: reading scales
Lesson 19: reading time from a clock
Lesson 20: rounding numbers to the nearest ten, rounding money to the nearest dollar
Investigation 2: units of length, perimeter
Lesson 21: triangles, rectangles, squares and circles
Lesson 22: naming fraction, adding dollars and cents
Lesson 23: lines, segments, rays and angles
Lesson 24: more about missing numbers in addition and subtraction
Lesson 25: subtraction stories
Lesson 26: drawing pictures of fractions
Lesson 27: multiplication as repeated addition, elapsed time
Lesson 28: multiplication table
Lesson 29: multiplication facts (0,1,2,5)
Lesson 30: subtracting three-digit numbers with regrouping
Investigation 3: multiplication patterns, area, squares and square roots
Lesson 31: word problems about comparing
Lesson 32: multiplication facts 9
Lesson 33: writing numbers through hundred millions
Lesson 34: writing numbers through hundred millions part 2
Lesson 35: naming mixed numbers, two forms of money
Lesson 36: fractions of a dollar
Lesson 37: reading fractions and mixed numbers from a number line
Lesson 38: multiplication facts (memory group)
Lesson 39: reading an inch scale to the nearest fourth
Lesson 40: capacity
Investigation 4 decimal numbers
Lesson 41: subtracting across zeros, missing factors
Lesson 42: multiplying multiples of 10 and 100, rounding numbers to the nearest hundred
Lesson 43: adding subtracting decimal numbers part 1
Lesson 44: multiplying two digit numbers part 1
Lesson 45: parenthesis, associative property, naming lines and segments
Lesson 46: division
Lesson 47: other ways to show division
Lesson 48: multiplying two digit numbers part 2
Lesson 49: stories about equal groups part 1
Lesson 50: adding and subtracting decimal numbers part 2
Investigation 5 - percents
Lesson 51: adding numbers with more than three digits, checking on digit division
Lesson 52: subtracting numbers with more than three digits, stories about equal groups
Lesson 53: one digit division with a remainder
Lesson 54: the calendar, rounding numbers to the nearest thousand
Lesson 55: multiples, factors
Lesson 56: using pictures to compare fractions
Lesson 57: rate word problems
Lesson 58: multiplying three digit numbers
Lesson 59: estimating arithmetic answers
Lesson 60: rate problems with a given total
Investigation 6 – displaying date using graphs
Lesson 61: remaining fraction, two step equations
Lesson 62: multiplying three or more factors, exponents
Lesson 63: polygons
Lesson 64: division with two digit answers part 1
Lesson 65: divisor dividend and quotient, division with two digit answers part 1 & 2
Lesson 66: similar and congruent figures
Lesson 67: multiplying by multiples of 10
Lesson 68: division with two digit answers and a remainder
Lesson 69: millimeters
Lesson 70: stories about a fraction of a group
Investigation 7 – collecting data with surveys
Lesson 71: division answers ending with zero
Lesson 72: finding information to solve problems
Lesson 73: geometric transformations
Lesson 74: fraction of a set
Lesson 75: measuring turns
Lesson 76: division with three digit answers, dividing money
Lesson 77: U, E, customary units of weight, metric unit for weight
Lesson 78: classifying triangles
Lesson 79: symmetry
lesson 80: division with zeros in three digit answers
investigation 8 – graphing relationships
lesson 81: angle measures
lesson 82: tesselations
lesson 83: sales tax, change back
lesson 84: decimal numbers to thousandths
lesson 85: multiplying by 10, 100, and 1,000
lesson 86: multiplying round numbers mentally part 1
lesson 87: multiplying two two-digit numbers part 1
lesson 88: remainders in stories about equal groups
lesson 89: mixed numbers and improper fractions
lesson 90: multiplying two digit numbers
investigation 9 – investigating fractions with manipulatives
lesson 91: decimal place value
lesson 92: classifying quadrilaterals
lesson 93: estimating multiplication and division answers
lesson 94: two step word problems
lesson 95: two step problems about a fraction of a group
lesson 96: average
lesson 97: mean, median mode range
lesson 98: geometric solids
lesson 99: decimal numbers and money
lesson 100 constructing geometric models
investigation 10 – probability
lesson 101: tables schedules
lesson 102: decimal number line: tenths and hundredths
lesson 103: fractions equal to 1 fractions equal to ½
lesson 104: changing improper fractions to whole or mixed numbers
lesson 105: dividing by 10
lesson 106: evaluating expressions
lesson 107: adding and subtracting fractions with common denominators
lesson 108: formulas distributive property
lesson 109: equivalent fractions
lesson 110: dividing by multiples of 10
investigation 11 – volume
lesson 111: estimating area
lesson 112: reducing fractions
lesson 113: multiplying a three digit number by a two digit number
lesson 114: simplifying fraction answers
lesson 115: renaming fractions
lesson 116: common denominators
lesson 117: rounding whole numbers through hundred millions
lesson 118: dividing by two digit numbers
lesson 119: adding and subtracting fractions with different denominators
lesson 120: adding and subtracting mixed numbers with different denominators
investigation 12 – solving equations

Progress Criteria/Methods of Evaluation: For successful completion of this course, the student will complete at least 70% of the lessons/goals, at a minimum of 70% accuracy.

September Complete Lessons 1 – 14
October Complete Lessons 15 – 28
November Complete Lessons 29 – 42
December Complete Lessons 43 – 56
January Complete Lessons 57 – 70
February Complete Lessons 71 – 84
March Complete Lessons 85 – 98
April Complete Lessons 99 – 112
May Complete Lessons 113 – 120
June Review