

Math 5

Text:	Hake & Saxon (1997). <i>Saxon math 65th 2nd Edition</i> , Saxon Publishers: Norman, OK.
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Supplemental Materials:	
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Course Description:	Math 5 is a course designed to challenge students through instruction and design based on mathematical concepts and skills. Students will be introduced to and master Whole Numbers, Decimal Numbers, Fractions, Geometry, Measurement and Enrichment “Hands on Math”. Students will use critical thinking skills to solve simple equations, perimeter, and area problems. Students will be introduced to higher-level math components including probability, statistics skills, and graphing. Students will be challenged to use their critical thinking skills while working with higher education materials. The integration of faith will be woven into the classroom each day.
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Methods of Evaluation:	Students can be evaluated through tests, quizzes, daily practice sets, homework problem sets, and/or any other form of evaluation instrument the instructor finds applicable to the course.
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Pace of Instruction:	First Semester: Lesson 1 - 80 Second Semester: Lesson 81 - 140
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Course Objectives:	<p>At the end of this course students should be able to:</p> <ol style="list-style-type: none"> 1. Identify place value, reads and writes numbers, and compares and orders numbers through 15 digits 2. Round numbers through 9 digits 3. Add and subtract numbers through 9 digits with and without regrouping 4. Multiply by one, two, and three digit numbers 5. Divide by one and two digit divisors with and without remainders and check their work 6. Solve multi-step word problems involving addition, subtraction, multiplication, and division 7. Achieve 80% or higher on math timed tests in addition, subtraction, multiplication, and division 8. Estimate by rounding numbers before adding, subtracting, multiplying, and dividing 9. Use correct terminology for math processes (Find sum, difference, product, and quotient.) 10. Find the average mean of a given set of numbers 11. Determine the value of letters used in place of numbers in math problems 12. Analyze data presented on a graph (circle, line, bar...) 13. Classify numbers into subsets – odd, even, prime...
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14. Compare numbers using $<$, $>$, $=$
15. Locate positive and negative numbers on a number line
16. Know that the sum of a number and its opposite is 0
17. Determine the greatest common factor (GCF) and least common factor (LCF)
18. Determine and express simple ratios
19. Find the given percent of a number
20. Express equivalences between fractions, decimals, and percents ($0.1 = 1/10 = 10\%$, $1/4 = 25\%$...)
21. Identifies place value through thousandths
22. Recognize that decimal numbers are less than whole numbers
23. Add, subtract, multiply, and divide decimal numbers through thousandths with and without regrouping
24. Compare, order, and round decimal numbers through thousandths
25. Solve multiple step word problems using decimal numbers
26. Convert decimal numbers into fractions and percentages
27. Identify the fractional part of a whole or group
28. Identify and finds equivalent fractions
29. Compare and orders fractions justifying the comparison.
30. Put fractional answers in lowest terms
31. Recognize the top number as the numerator and bottom number as the denominator
32. Recognize proper and improper fractions, and mixed numbers
33. Add, subtract, multiply, and divide fractions and mixed numbers
34. Solve word problems involving fractions and mixed numbers
35. Know that the product of a given number and its reciprocal = 1
36. Round fractions to the nearest whole number
37. Identify, draw, and label line segments, lines, edges, faces, vertices, angles, points, and rays
38. Recognize and draw horizontal, vertical, and oblique lines and segments
39. Draw and label parallel, intersecting, and perpendicular lines and segments
40. Name and draw polygons including triangles, quadrilaterals, pentagons, hexagons, and octagons
41. Find and contrast perimeter, area, and volume of a figure
42. Identify the parts of a circle including circumference, radius, diameter, the chord, and the center
43. Recognize congruent and symmetrical figures
44. Locate points on a graph or grid
45. Identify geometric solids and gives examples of each
46. Know that:
 - 90 degrees = right angle
 - Greater than 90 degrees = obtuse angle
 - Less than 90 degrees = acute angle
 - 180 degrees = straight angle (line)
 - 360 degrees = circle
47. Use customary and metric units of measurement

	<ul style="list-style-type: none">48. Read time to the minute using digital and 2-handed clocks49. Convert time units and measurement units50. Solve word problems with measurement using all four math operations51. Find and contrast perimeter, area, and volume of a figure
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