Accelerated Math 6

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Text:	Hake & Saxon (1991). Saxon math 87 2 nd Edition, Saxon Publishers:
	Norman, OK
Supplemental Materials:	
Materials.	
Course	Accelerated Math 6 is a course designed to challenge students through
Description:	instruction and design based on upper-level mathematics concepts and
Description.	skills. Students will be introduced and master the basic operations of
	fractions, mixed numbers, decimals, and signed numbers while working
	with fractional parts of a number, percent, proportion, and ratio word
	problems, powers, roots, and exponents. Students will use critical thinking
	skills to write and solve algebraic problems, algebraic equations and solve
	perimeter, area, volume, and surface area problems. Students will be
	introduced to higher level math components including probability and
	statistics skills, scientific notation and graphing. Students will be challenged
	to use their critical thinking skills while working with higher education
	materials.
Methods of	Students can be evaluated through tests, quizzes, daily practice sets,
Evaluation:	homework problem sets, lab grades quarterly exams, and/or any other form
	of evaluation instrument the instructor finds applicable to the course.
Pace of	First Semester: Lesson 1 - 80
Instruction:	Second Semester: Lesson 81 - 135
Course	At the end of this course students should be able to:
Objectives:	1. Competency in basic operations of whole numbers, fractions,
	decimals, and signed numbers
	2. Problem solving techniques and Properties of numbers
	3. Decimal system
	4. Rational numbers
	5. Equations and inequalities
	6. Geometry and measurement
	7. Ratio, proportion, and percent
	8. Coordinate plane and graphs
	9. Area, volume, and surface area
	10. Exponents and roots
	11. Probability and statistics
	12. To perform operations with whole numbers, fractions, decimals,
	and signed numbers 13. To solve word problems using problem solving techniques
	13. To solve word problems using problem solving techniques
	14. To use properties of numbers to solve problems 1. To identify place value through trillions
	1. To identify place value through trillions

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- 2. To solve equations
- 3. To graph inequalities
- 4. To work with exponents, powers, and roots
- 5. To use geometric formulas
- 6. To demonstrate the equivalencies between fractions, decimals, and percents
- 7. To use ratios and proportions to solve word problems
- 8. To work with scientific notation
- 9. To use probability and statistics to solve problems
- 10. Use problem solving techniques
- 11. Add, subtract, multiply, and divide whole numbers
- 12. Use divisibility rules 2,3,4,5,6,8,9,10, and 12
- 13. Determine place value through trillions
- 14. Work with prime and composite numbers
- 15. Add, subtract, multiply, and divide fractions
- 16. Read and construct graphs
- 17. Find GCF
- 18. Find LCM
- 19. Solve 2-step problems
- 20. Round and estimate
- 21. Add/subtract fractions with unlike denominators
- 22. Work with decimals read/write/place value
- 23. Add, subtract, multiply, and divide decimals
- 24. Use ratios and proportions to solve problems
- 25. Know decimal/fraction/percent equivalencies
- 26. Find area of a rectangle
- 27. Work with powers and roots
- 28. Find perimeter of complex shapes
- 29. Find complex average
- 30. Use order of operations
- 31. Work with scientific notation (large numbers)
- 32. Add and subtract mixed numbers
- 33. Know measurement equivalencies
- 34. Work with scientific notation (small numbers)
- 35. Add, subtract, multiply, and divide signed numbers
- 36. Find area of a triangle
- 37. Classify triangles
- 38. Solve percent equations
- 39. Use ratio boxes for problem solving
- 40. Find volume of rectangular prism
- 41. Identify solids/using vocabulary
- 42. Graph on a coordinate plane
- 43. Find circumference of a circle
- 44. Find area of a complex figure
- 45. Simplify complex fractions
- 46. Solve percent equations

- 47. Graph inequalities
- 48. Find area of a circle
- 49. Use protractor and compass
- 50. Find mean, median, mode, and range of sets of numbers
- 51. Use Pythagorean Theorem
- 52. Find surface area of rectangular prism
- 53. Find volume of right solids
- 54. Use probability