

Kolbe Academy Home School

GRADE EIGHT PRE-ALGEBRA *Saxon Algebra 1/2*

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Teachers' Notes: Begin every class with a prayer. This is a good way to help the child memorize new prayers. Repeat the same ones every day until they are known. Be sure to explain the meanings of the prayers. Repetition in all areas of study is most beneficial. In most cases, Fridays have been left open. You may do a four-day week or use Friday as a "catch-up" day. While art and music can be worked in during the week, Friday is also a good day to concentrate on those subjects.

Your student may not need all of Week 8 for review. You can use this time to catch up if necessary and then go over the subject matter. If you intend to use the sample tests provided, look them over before teaching the subjects and make sure you teach the material in the tests. Some children have a difficult time doing written exams, but it is important for them to learn how to take them. If your eighth grader does poorly on them, give them to him again a couple days after he has taken them for the first time and average the grades.

COURSE TITLE: Pre-Algebra

COURSE DESCRIPTION:

This course provides a transition “from the concrete concepts of arithmetic to the abstract concepts of algebra.” Students who may have struggled with Saxon Mathematics 8/7 are encouraged to use Saxon Algebra 1/2 prior to moving onto a course in Algebra I.

The tests provided by Saxon should be used as weekly quizzes to test the student’s understanding of the previous week’s material. They should be given at the end of the week in which the Test is scheduled according to the Course Plan. A final exam over the quarter’s material should be given at the end of the quarter. A final cumulative exam is an optional test to be given at the end of the course to bring together all of the concepts taught within the Algebra ½ course and to better prepare the student for their High School Mathematics courses.

SCOPE AND SEQUENCE:

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| 1. Whole Numbers | 15. Surface Area |
| 2. Subtraction and Addition Patterns | 16. Percents |
| 3. Multiplication and Division Patterns | 17. Ratio and Proportion |
| 4. Decimals | 18. Mixed Numbers |
| 5. Word Problems | 19. Absolute Value |
| 6. Points, Lines, and Rays | 20. Parentheses |
| 7. Divisibility | 21. Properties of Algebra |
| 8. Fractions | 22. Exponents and Signed Numbers |
| 9. Multiples | 23. Classifying Triangles |
| 10. Areas | 24. Roman Numerals |
| 11. Metric System | 25. Probability |
| 12. Variables | 26. Pythagorean Theorem |
| 13. Roots | 27. Permutations |
| 14. Volume | 28. Real Numbers |

TEXT: *Saxon Algebra 1/2: An Incremental Development*, Third Edition

COURSE PLAN METHODOLOGY: The quarterly schedule is set up such that one lesson or test can be done on a five-day schedule. Although most of Kolbe Academy Home School course plans are set up for a four-day-a-week, the mathematics courses do benefit from a five-day-a-week schedule. This can be changed if the student would like to double up on an assignment or test on the final day of the week. Students should work at their own pace. They should not be held back by this outline if they are capable of going ahead, but they should not fall too far behind this outline.

Kolbe Academy has worked diligently to create the best possible course plans with the home schooling family in mind. Remember, however, that our program is intended to be flexible. Per the principle of subsidiarity, these course plans are a **suggested** course of study. As the teacher, you should adapt and modify these course plans to meet the individual learning needs of your child. **Do not feel obligated to follow these course plans exactly.**

◆◆◆ FIRST QUARTER ◆◆◆

WEEK	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1	Lesson 1	Lesson 2	Lesson 3	Lesson 4	
2	Lesson 5	Lesson 6	Lesson 7	Lesson 8	Test 1