

Kolbe Academy Home School

GRADE EIGHT PRE-ALGEBRA *Saxon Algebra ½*

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COURSE TITLE: Pre-Algebra

COURSE TEXTS: *Saxon Algebra 1/2 Home Study Kit: An Incremental Development*, Third Edition
Saxon Algebra 1/2 Solutions Manual, Optional

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:

- | | |
|---|----------------------------------|
| 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 | |

COURSE PLAN METHODOLOGY:

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 them to meet the individual learning needs of your child. **Do not feel obligated to follow these course plans exactly.**

In the course plans that follow, *Saxon Pre-Algebra* is represented by the abbreviation **SAX**. Each weekly assignment is summarized in the first line of the week’s daily course plan. The specific daily assignments are outlined in the following lines indicated by the **DAY 1, DAY 2, DAY 3, DAY 4, and DAY 5** abbreviations. Parent daily guidelines are given to the right of the student assignments. The quarterly schedule is set up such that one

lesson, investigation 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 week, the mathematics courses at this level do benefit from a five-day week schedule. This can be altered if the student would like to double up on an assignment or test on the final day of their week. A family's schedule can and should vary as needed.

A weekly grade book is included at the end of the week's course plan *as a convenience*. Parents should use the grade book only as a help to their homeschooling and not as a hindrance. It includes a cumulative list of written assignments from the week's course plan as well as space for additional assignments, if needed. **Kolbe Academy does not require that you keep record of all student work.** If you intend to report your student's work to Kolbe Academy for an official record, only one sample of written and graded work is required per quarter per course along with the signed and filled out report card. The weighting suggestion in the end of quarter grade book is there for *convenience* and may be modified as the parent deems fit. Please consult the welcome packet for a full tutorial on using the grade book.

This Pre-Algebra course contains 36 weeks broken into four 9-week quarters. Week 8 is a lighter week, and usually includes a few days for review. You should use the review days as time to catch up if necessary and then go over the subject matter. **If you intend to use the tests provided, look them over *before* teaching the subjects and make sure you review the material in the tests throughout the quarter.**

Finally, 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.

◆◆◆ FIRST QUARTER ◆◆◆

WEEK 1				
Book	Weekly Breakdown	Goals and Notes for the Week		
SAX	Lessons 1 - 4	This week's lessons will cover: whole number place value, expanded notation, reading and writing whole numbers, addition, the number line and ordering, rounding whole numbers, subtraction, addition and subtraction patterns, multiplication, division, and multiplication and division patterns.		
<div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <div style="border: 1px solid black; display: inline-block; padding: 2px;">Notes</div> </div>				
Student Daily Assignments		<input checked="" type="checkbox"/>	Parent Daily Guidelines	
DAY 1	SAX Lesson 1	<input type="checkbox"/>	Have the student do lesson 1 pages 1-6. Go over the Practice Set together and assign the Problem Set for the student to complete.	
DAY 2	SAX Lesson 2	<input type="checkbox"/>	Have the student do lesson 2 pages 7-10. Go over the Practice Set together and assign the Problem Set for the student to complete.	
DAY 3	SAX Lesson 3	<input type="checkbox"/>	Have the student do lesson 3 pages 11-14. Go over the Practice Set together and assign the Problem Set for the student to complete.	
DAY 4	SAX Lesson 4	<input type="checkbox"/>	Have the student do lesson 4 pages 15-19. Go over the Practice Set together and assign the Problem Set for the student to complete.	
Week 1 Grade Book				
Assignments	Include <input checked="" type="checkbox"/>	(A) Points Earned	(B) Possible Points	A/B x100 =% (C)
Lesson 1	<input type="checkbox"/>			
Lesson 2	<input type="checkbox"/>			
Lesson 3	<input type="checkbox"/>			
Lesson 4	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Week 1 Average	Add up column C & divide by number of included <input checked="" type="checkbox"/> assignments =			%

◆ COURSE PLAN ◆

WEEK 2				
Book	Weekly Breakdown	Goals and Notes for the Week		
SAX	Test 1 Lessons 5 - 8	This week's lessons will cover: addition and subtraction word problems, reading and writing decimal numbers, adding and subtracting decimal numbers, rounding decimal numbers, multiplying decimal numbers, dividing decimal numbers, estimation, multiplying and dividing by powers of 10, and ordering decimal numbers.		
<div style="border: 1px solid black; padding: 5px; width: fit-content;">Notes</div>				
Student Daily Assignments		<input checked="" type="checkbox"/>	Parent Daily Guidelines	
DAY 1	SAX Lesson 5	<input type="checkbox"/>	Have the student do lesson 5 20-22. Go over the Practice Set together and assign the Problem Set for the student to complete.	
DAY 2	SAX Lesson 6	<input type="checkbox"/>	Have the student do lesson 6 23-27. Go over the Practice Set together and assign the Problem Set for the student to complete.	
DAY 3	SAX Lesson 7	<input type="checkbox"/>	Have the student do lesson 7 27-31. Go over the Practice Set together and assign the Problem Set for the student to complete.	
DAY 4	SAX Lesson 8	<input type="checkbox"/>	Have the student do lesson 8 31-34. Go over the Practice Set together and assign the Problem Set for the student to complete.	
DAY 5	SAX Test 1		Have the student do Test 1.	
Week 2 Grade Book				
Assignments	Include <input checked="" type="checkbox"/>	(A) Points Earned	(B) Possible Points	A/B x100 =% (C)
Lesson 5	<input type="checkbox"/>			
Lesson 6	<input type="checkbox"/>			
Lesson 7	<input type="checkbox"/>			
Lesson 8	<input type="checkbox"/>			
Test 1	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Week 2 Average	Add up column C & divide by number of included <input checked="" type="checkbox"/> assignments =			%

