

# Kolbe Academy Home School

## GRADE FIVE MATHEMATICS *Saxon Math 6/5*

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**COURSE TITLE:** Mathematics

**COURSE TEXTS:** *Saxon Math 6/5 Home Study Kit, Third Edition, 2005, (T4065)*

**COURSE DESCRIPTION:**

This course is designed to strengthen and increase the student's basic mathematical skills to a fifth grade level of competence. Be sure to read the introduction that Saxon provides at the beginning of their books. Each lesson should begin with a warm-up exercise with the Facts Practice Test as described in the introduction of *Saxon Math 6/5*.

Each test provided by *Saxon Math 6/5* is cumulative such that an entire week of review is not necessary for the quarterly exams. Quarterly exams should be a compilation from the weekly tests given in that particular quarter.

Care should be taken to make sure that students complete all the problems, as well as all the supplemental work in any trouble area. Supplemental material is provided at the back of *Saxon Math 6/5* for selected lessons. This material is strictly optional.

**COURSE OBJECTIVES**

- ❖ Numeration:
  - Naming, ordering, counting, reading
  - Place value
  - Rounding and writing numbers
  - Comparing
  - Roman numerals
- ❖ Addition and Subtraction up to 6 digits
- ❖ Multiplication to 3 digits
  - Powers of 10
  - Money
  - Using exponents
- ❖ Division up to 3 digit divisors
  - Estimating
  - Finding divisibility factorization
  - Finding factors
  - Identifying prime or composite
  - Powers of 10
- ❖ Decimals to 10 thousandths place
  - Reading and writing
  - Expanding, comparing and rounding
  - 4 operations
  - Writing fractions as decimals
  - Repeating
- ❖ Measurement
  - ❖ Fractions – 4 operations
    - Finding equal fractions
    - Mixed numbers
    - Comparing
    - Estimating
    - Reciprocals
    - Ratios
  - ❖ Geometry
    - Identifying lines, rays, and angles
    - Measuring, drawing, and identifying angles and perpendicular lines
    - Circles: center, radius and diameter
    - Identifying polygons and parts of triangles
    - Finding perimeter and circumference
    - Classifying triangles
    - Using sum of angle measures in a triangle
  - ❖ Percent
    - Relating fractions, decimals and percents
    - Changing fractions to percents and vice versa

- Discount and sale price
- ❖ Probability
- ❖ Statistics and Integers
  - Making and reading various tables and graphs
- Writing and comparing integers
- Adding and subtracting integers
- Graphing pairs of integers

**SCOPE AND SEQUENCE:**

- ❖ Quarter 1: Lessons 1-30
- ❖ Quarter 2: Lessons 31-60
- ❖ Quarter 3: Lessons 61-90
- ❖ Quarter 4: Lessons 91-120

**SKILLS TO BE DEVELOPED:**

- ❖ Develop basic computational skills
- ❖ Develop problem solving skills
- ❖ Understand and use skills in estimating, interpreting and organizing data: measuring and predicting.
- ❖ Able to apply mathematical ideas to everyday situations.

**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 Mathematics 6/5* student textbook is represented by the abbreviation **SAX**. The *Saxon Mathematics 6/5* Tests and Worksheet booklet is represented by the abbreviation **WORK**. Each weekly assignment is summarized in the first rows of the week's daily course plan along with the goals and notes for that week. The specific daily assignments for the student 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 mathematics 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.**

Some children have a difficult time doing written exams, but it is important for them to learn how to take them. If your fifth grader does poorly on them, give them to him orally a couple of days after he has taken them and average the grades.

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 - 5	The Facts Practice Sheets should be used as a warm-up for each Lesson assigned. An overall grade for these worksheets should be given for the week. Students will cover a review of addition, sequences and digits, even and odd numbers, place value demonstrated with money, whole numbers, and dollars and cents.
WORK	Pages 13 - 32	
<div style="border: 1px solid black; padding: 5px; min-height: 100px;">                     Notes                 </div>		
Student Daily Assignments		<input checked="" type="checkbox"/> Parent Daily Guidelines
DAY 1	Do WORK Page 13	<input type="checkbox"/>
	Do SAX Lesson 1	<input type="checkbox"/>
DAY 2	Do WORK Page 14	<input type="checkbox"/>
	Do SAX Lesson 2	<input type="checkbox"/>
DAY 3	Do WORK Page 15	<input type="checkbox"/>
	Do SAX Lesson 3	<input type="checkbox"/>
DAY 4	Do WORK Page 31	<input type="checkbox"/>
	Do SAX Lesson 4	<input type="checkbox"/>
DAY 5	Do WORK Page 32	<input type="checkbox"/>
	Do SAX Lesson 5	<input type="checkbox"/>

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"/>			
Lesson 5	<input type="checkbox"/>			
Facts Practice Sheets	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
<b>Week 1 Average</b>	<b>Add up column C &amp; divide by number of included <input checked="" type="checkbox"/> assignments =</b>			<b>%</b>

WEEK 2				
Book	Weekly Breakdown	Goals and Notes for the Week		
SAX	Lessons 6 - 10	Students will cover addition with one digit numbers, using the addition algorithm, and counting with money, numbers through hundred thousands, subtraction facts and fact families, using the subtraction algorithm and subtracting with money, and missing addends.		
WORK	Pages 33 - 37			
Notes				
Student Daily Assignments		<input checked="" type="checkbox"/>	Parent Daily Guidelines	
DAY 1	Do WORK Page 33	<input type="checkbox"/>	Have the student warm up for Lesson 6 with the Facts Practice Test A on page 33 in WORK. Go over Lesson 6 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.	
	Do SAX Lesson 6	<input type="checkbox"/>		
DAY 2	Do WORK Page 34	<input type="checkbox"/>	Have the student warm up for Lesson 7 with the Facts Practice Test A on page 34 in WORK. Go over Lesson 7 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.	
	Do SAX Lesson 7	<input type="checkbox"/>		
DAY 3	Do WORK Page 35	<input type="checkbox"/>	Have the student warm up for Lesson 8 with the Facts Practice Test A on page 35 in WORK. Go over Lesson 8 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.	
	Do SAX Lesson 8	<input type="checkbox"/>		
DAY 4	Do WORK Page 36	<input type="checkbox"/>	Have the student warm up for Lesson 9 with the Facts Practice Test B on page 36 in WORK. Go over Lesson 9 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.	
	Do SAX Lesson 9	<input type="checkbox"/>		
DAY 5	Do WORK Page 37	<input type="checkbox"/>	Have the student warm up for Lesson 10 with the Facts Practice Test B on page 37 in WORK. Go over Lesson 10 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.	
	Do SAX Lesson 10	<input type="checkbox"/>		
Week 2 Grade Book				
Assignments	Include <input checked="" type="checkbox"/>	(A) Points Earned	(B) Possible Points	A/B x100 =% (C)
Lesson 6	<input type="checkbox"/>			
Lesson 7	<input type="checkbox"/>			
Lesson 8	<input type="checkbox"/>			
Lesson 9	<input type="checkbox"/>			
Lesson 10	<input type="checkbox"/>			
Facts Practice Sheets	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
<b>Week 2 Average</b>	<b>Add up column C &amp; divide by number of included <input checked="" type="checkbox"/> assignments =</b>			<b>%</b>