

Kolbe Academy Home School

GRADE FIVE MATHEMATICS *Saxon Math 6/5*

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Teacher's 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 important. 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 should 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 fifth grader does poorly on them, give them to him orally a couple days after he has taken them and average the grades.

COURSE TITLE: Mathematics

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.

SCOPE & SEQUENCE:

1. Numeration:
 - a. Naming, ordering, counting, reading and writing numbers
 - b. Place value
 - c. Rounding
 - d. Comparing
 - e. Roman numerals
2. Addition and Subtraction up to 6 digits.
3. Multiplication to 3 digits.
 - a. Powers of 10
 - b. Money
 - c. Using exponents
4. Division up to 3 digit divisors
 - a. Estimating
 - b. Finding divisibility
 - c. Finding factors
 - d. Identifying prime or composite: prime factorization
 - e. Powers of 10
 - f. Averages
5. Decimals to 10 thousandths place
 - a. Reading and writing
 - b. Expanding, comparing and rounding
 - c. 4 operations
 - d. Writing fractions as decimals
 - e. Repeating
6. Measurement

7. Fractions - 4 operations
 - a. Finding equal fractions
 - b. Mixed numbers
 - c. Comparing
 - d. Estimating
 - e. Reciprocals
 - f. Ratios
 - g. Proportions

8. Geometry
 - a. Identifying lines, rays and angles
 - b. Measuring, drawing, and identifying angles and perpendicular lines
 - c. Circles: center, radius and diameter
 - d. Identifying polygons and parts of triangles
 - e. Finding perimeter and circumference
 - f. Classifying triangles
 - g. Using sum of angle measures in a triangle

9. Percent
 - a. Relating fractions, decimals and percents
 - b. Changing fractions to percents and vice versa
 - c. Discount and sale price

10. Probability

11. Statistics and Integers
 - a. Making and reading various tables and graphs
 - b. Writing and comparing integers
 - c. Finding the opposites of integers
 - d. Adding and subtracting integers
 - e. Graphing pairs of integers.

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 TEXT: *Saxon Math 6/5*, Third Edition

COURSE PLAN METHODOLOGY: Each daily assignment is in the first line of the week's daily course plan. 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-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	Lesson 5
2	Lesson 6	Lesson 7	Lesson 8	Lesson 9	Lesson 10