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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.

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

<table>
<thead>
<tr>
<th>Book</th>
<th>Weekly Breakdown</th>
<th>Goals and Notes for the Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAX</td>
<td>Lessons 1 - 5</td>
<td>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.</td>
</tr>
<tr>
<td>WORK</td>
<td>Pages 13 - 32</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

<table>
<thead>
<tr>
<th>Student Daily Assignments</th>
<th>Parent Daily Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAY 1</td>
<td></td>
</tr>
<tr>
<td>Do WORK Page 13</td>
<td>Have the student warm up for Lesson 1 with the Facts Practice Test A on page 13 in WORK. Go over Lesson 1 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.</td>
</tr>
<tr>
<td>Do SAX Lesson 1</td>
<td></td>
</tr>
<tr>
<td>DAY 2</td>
<td></td>
</tr>
<tr>
<td>Do WORK Page 14</td>
<td>Have the student warm up for Lesson 2 with the Facts Practice Test A on page 14 in WORK. Go over Lesson 2 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.</td>
</tr>
<tr>
<td>Do SAX Lesson 2</td>
<td></td>
</tr>
<tr>
<td>DAY 3</td>
<td></td>
</tr>
<tr>
<td>Do WORK Page 15</td>
<td>Have the student warm up for Lesson 3 with the Facts Practice Test A on page 15 in WORK. Go over Lesson 3 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student. There are templates in WORK, pages 17-29, to go along with the lessons in SAX.</td>
</tr>
<tr>
<td>Do SAX Lesson 3</td>
<td></td>
</tr>
<tr>
<td>DAY 4</td>
<td></td>
</tr>
<tr>
<td>Do WORK Page 31</td>
<td>Have the student warm up for Lesson 4 with the Facts Practice Test A on page 31 in WORK. Use the Activity Sheets 1-6 in WORK pages 17-27 with Lesson 4 if desired. Go over Lesson 4 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.</td>
</tr>
<tr>
<td>Do SAX Lesson 4</td>
<td></td>
</tr>
<tr>
<td>DAY 5</td>
<td></td>
</tr>
<tr>
<td>Do WORK Page 32</td>
<td>Have the student warm up for Lesson 5 with the Facts Practice Test A on page 32 in WORK. Go over Lesson 5 with the student and do the Practice Set with the student. Assign the Mixed Practice to the student.</td>
</tr>
<tr>
<td>Do SAX Lesson 5</td>
<td></td>
</tr>
</tbody>
</table>
## Week 1 Grade Book

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Include</th>
<th>(A) Points Earned</th>
<th>(B) Possible Points</th>
<th>A/B x100 =% (C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson 1</td>
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<tr>
<td>Lesson 2</td>
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<td>Lesson 3</td>
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<td>Lesson 4</td>
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<tr>
<td>Lesson 5</td>
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<tr>
<td>Facts Practice Sheets</td>
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<tr>
<td>Other:</td>
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</tbody>
</table>

**Week 1 Average**

Add up column C & divide by number of included ✔ assignments = %
# Mathematics

## Grade 5

### Course Plan

#### Week 2

<table>
<thead>
<tr>
<th>Book</th>
<th>Weekly Breakdown</th>
<th>Goals and Notes for the Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAX</td>
<td>Lessons 6 - 10</td>
<td>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.</td>
</tr>
<tr>
<td>WORK</td>
<td>Pages 33 - 37</td>
<td></td>
</tr>
</tbody>
</table>

#### Student Daily Assignments

**DAY 1**
- Do WORK Page 33
- Do SAX Lesson 6

**DAY 2**
- Do WORK Page 34
- Do SAX Lesson 7

**DAY 3**
- Do WORK Page 35
- Do SAX Lesson 8

**DAY 4**
- Do WORK Page 36
- Do SAX Lesson 9

**DAY 5**
- Do WORK Page 37
- Do SAX Lesson 10

#### Week 2 Grade Book

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Include</th>
<th>(A) Points Earned</th>
<th>(B) Possible Points</th>
<th>A/B x100 =%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesson 6</td>
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<td>Lesson 7</td>
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<td>Lesson 8</td>
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<td>Lesson 9</td>
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<tr>
<td>Lesson 10</td>
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<tr>
<td>Facts Practice Sheets</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

**Week 2 Average**

Add up column C & divide by number of included assignments = %