


## Course Lead Sheet

	<b>Course Title</b> <h3 style="margin: 0;">5th Grade Math</h3>	
	<b>Theme / Master Question</b>	How do mathematics reflect the ordered world of God's creation and his immutable, logical character?
<b>Course Description:</b> This course continues the grammar school study of arithmetic. Students should demonstrate an increasing understanding that God gave us numbers and mathematical systems to help us in life and to also help us understand His immutable (unchangeable) and logical character.		
<b>Time / Schedule:</b> 1 period / day M-T-W-Th-F 300 minutes / week  <b>Aim:</b> 50% Lecture and coaching 50% Practice	<b>Primary Teaching Goals</b> The student will be able to: <ol style="list-style-type: none"> <li>1. complete all assigned math work / worksheets satisfactorily (75%+).</li> <li>2. complete written story problems (using a variety of subjects) involving 1–4 steps.</li> <li>3. solve at least 75% of all given addition, subtraction, multiplication (three digits), and division (two digits) problems using whole numbers and decimal numbers.</li> <li>4. use math skills to correctly solve money problems.</li> <li>5. apply math skills to other subject areas (e.g., Bible, history, etc.) as applicable.</li> <li>6. correctly add and subtract three fractions with identical and different denominators.</li> <li>7. correctly use the four operations on fractions.</li> <li>8. identify reciprocals of fractions and make improper fractions.</li> <li>9. accurately estimate (round) numbers to solve and check problems.</li> <li>10. correctly reduce fractions to lowest terms, write decimals as fractions, write decimals as percentages, and write fractions as percentages.</li> <li>11. correctly identify basic geometric figures and calculate perimeter / area.</li> <li>12. correctly add, subtract, multiply, and divide mixed numbers.</li> <li>13. correctly determine Greatest Common Factor (GFC) and Least Common Multiple (LCM) when given two or three numbers.</li> <li>14. correctly average whole numbers.</li> <li>15. correctly set up and neatly write a given problem.</li> <li>16. solve at least 75% of all given problems.</li> </ol>	
<b>Key Teacher Resources:</b> Saxon <i>Math 7/6</i> , teacher and student editions with resource materials  Various manipulatives  Teacher-created worksheets	<b>Primary Teaching Methods</b> Class should be conducted around the following parameters: <ol style="list-style-type: none"> <li>1. teaching is primarily lecture and coaching, presenting new material and reviewing with the class using individual whiteboards at the desk, followed by working with students individually and in small groups to practice problem-solving strategies and conceptual thinking about math;</li> <li>2. connecting math as often as possible to real-life situations and challenges;</li> <li>3. emphasizing logical evaluation of how and why math works;</li> <li>4. math drills and games;</li> <li>5. class begins each day with a brief activity, questions to consider, or math drill to prepare for the lesson or review.</li> </ol>	
<b>Key Student Works:</b> Saxon <i>Math 7/6</i> , student edition   See Course Scope and Sequence for a complete list.		

**Curriculum Guide:**

Vision Statement

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Curriculum Roadmap

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**Course Lead Sheet**

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Course Scope and  
Sequence

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Course Syllabus

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Gold Sheet Source Docs.

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Lesson Plans

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Socratic Discussion Rubric

**Primary Measures and Assessments**

Student work should be evaluated according to the following guidelines:

1. grades are based primarily on weekly tests (50%) and homework (40%), and participation (10%);
2. students are tested after every five lessons, almost once a week (20 points each);
3. periodically, students are given supplemental multiple-choice tests, covering material from several weekly tests, comprising a unit;
4. homework is graded through daily corrections in-class, which can be turned in for credit.

## Course Scope and Sequence

	<h1 style="margin: 0;">5th Grade Math</h1>			
<b>Master Skills, Ideas, or Knowledge Taught</b>	<input type="checkbox"/> Master basic arithmetic (addition, subtraction, multiplication, division) <input type="checkbox"/> Manipulate decimals <input type="checkbox"/> Manipulate fractions <input type="checkbox"/> Manipulate percentages			
<b>Complete Texts and Materials List</b>	<input type="checkbox"/> Saxon <i>Math 7/6</i> , Teacher's Manual, Solutions Manual, and tests, and one Student Edition per student <input type="checkbox"/> Various math-related worksheets for each student <input type="checkbox"/> A variety of manipulatives and flashcards			
<b>Suggested Quarterly Schedule</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
	Saxon <i>Math 7/6</i> , Lessons 21–47  Tests covering above lessons	Saxon <i>Math 7/6</i> , Lessons 48–70  Tests covering above lessons	Saxon <i>Math 7/6</i> , Lessons 71–100  Tests covering above lessons	Saxon <i>Math 7/6</i> , Lessons 101–120  Tests covering above lessons
<b>Suggested Sample Week / Unit at a Glance</b>	<p><b>Monday:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Introduce lesson</li> <li><input type="checkbox"/> Practice on whiteboards</li> <li><input type="checkbox"/> Assign homework</li> </ul> <p><b>Tuesday:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Correct homework</li> <li><input type="checkbox"/> Introduce new lesson</li> <li><input type="checkbox"/> Practice on whiteboards</li> <li><input type="checkbox"/> Assign homework</li> </ul> <p><b>Wednesday:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Correct homework</li> <li><input type="checkbox"/> Introduce new lesson</li> <li><input type="checkbox"/> Practice on whiteboards</li> <li><input type="checkbox"/> Assign homework</li> </ul> <p><b>Thursday:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Correct homework</li> <li><input type="checkbox"/> Give homework quiz</li> <li><input type="checkbox"/> Introduce new lesson</li> <li><input type="checkbox"/> Practice on whiteboard</li> <li><input type="checkbox"/> Assign homework or review for test</li> </ul> <p><b>Friday:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Review or test</li> </ul>			
<b>Curriculum Guide:</b> Vision Statement   Curriculum Roadmap   Course Lead Sheet   <b>Course Scope and Sequence</b>   Course Syllabus   Gold Sheet Source Docs.   Lesson Plans   Socratic Discussion Rubric				