

## Course Title: Saxon Math 8/7

**Teacher:** Liz Darnell

### Contact Information:

Phone/TEXT: 407-468-5055

Email: liz@therockofcf.org OR through PRAXI

The best time to reach me is: Mon-Fri business hours

- If you text me, I can get back to you more quickly.

### Materials Supplies Needed for these Courses:

Students MUST have the following:

- Textbooks and Answer Keys OR Solutions Manuals
- 3-ring Binder (1.5 “ or 2”)
- 3 Tab Dividers Labeled: 1) Notes/Handouts 2) Homework 3) Tests/Quizzes
- Notebook Paper, Pencils
- Straight Edge (ruler or protractor)
- NO Calculators are permitted for this class

### My Goals are that each student would:

- become critical thinkers and competent problem solvers
- hone their math skills and build confidence
- see the beauty and precision of our Designer in the complexities of the math

### What you can expect of the Teacher:

- I will be professional, prepared, and on time.
- I will be available to you, the parent, so that our partnership will be successful.
- I will be attentive to each student and seek to develop their unique perspective as it pertains to problem solving as well as challenge them to achieve beyond what they have ever thought possible.

### What I expect of Parents:

#### I need Parents to:

- assist students in keeping up with the syllabus so that the work is turned in on time every week
- grade the daily homework and mark the numbers wrong across the top of the page
- check PRAXI AT LEAST once per week and review your child’s progress
- provide the necessary assistance when a student struggles (suggestions would be: 1. Help them with homework; 2. Bring them to Math Lab; 3. Hire a private tutor if necessary)
- occasionally proctor tests, online tests, and quizzes (This means making sure that they take these assessments with integrity and NO outside assistance.)

### What I expect of Students:

#### Students will:

- complete the weekly lessons and turn them in on time
- ask questions and participate actively in class—PLEASE contact me if you need help!
- come to Math Lab when extra assistance is necessary
- not associate their worth with a letter grade Self-esteem should NOT be tied to letter grades. Studying math can be a great experience in tackling a challenge, learning perseverance, and maintaining a great attitude. All of these are terrific benefits regardless of individual letter grades on assignments and assessments. As a strong work ethic is applied skill level WILL go up.

### Grading:

Grades are given to a variety of assessments, tasks, and projects. ONE low grade will NOT sink your academic ship—so don't lose heart if you get a poor grade on an assessment. It is important that students do well on tests and that students independently master the concepts.

Grades are weighted as follows:

- **75% Tests and Quizzes**
- **20% Homework** (5 points per assignment)
- **5% Notebook**

**EXTRA CREDIT is NOT always offered. Students who do not follow the directions for homework will NOT be given an opportunity for extra credit.**

### How to Get an 'A' in this Class:

- Turn your completed and graded homework in ON TIME!
- Keep a great notebook.
- Show your work (where applicable) and work toward developing the processes necessary to do upper math.
- Work consistently every day. Do not make it a habit to let your homework pile up or do it all in one day.
- Get help when you need it.

### Absences:

The TRA Policy is to give students one extra class period to turn in work due to an EXCUSED absence. If you should need more time to get caught up, it is up to the parent to contact the teacher and work out additional due dates. **Assignments that are 2 weeks past the original due date are given zeros.**

Unexcused absences include, but are not limited to: sleeping in and not contacting the school in advance in writing for a planned absence. (There is a Planned Absence Form that MUST be filled out in advance.)

**You can lose your seat in the class if you miss more than 4 classes.**

### TESTS

Some tests are proctored at home and some are given online or in class.

**Students in Guided Study or Study Hall MAY be able to test if there is a suitable environment and a proctor available.**

Cheating is grounds for dismissal from the class and/or school. Students are not to receive any outside assistance during a test.

## Middle School Math Course Overview

<b>General 36- Week Course Overview Saxon Math 8/7</b>			
Semester I			Semester II
<b>1</b>	<b>Lessons 1-4</b> (Arithmetic w/ Whole Numbers, Money, Variables & Evaluation, Properties of Operations, Sequences, Number Line)	<b>19</b>	<b>Lessons 61-63</b> (Area of Parallelogram; Classifying Triangles; Symbols of Inclusion )
<b>2</b>	<b>Lessons 5-8</b> (Place Value; Reading & Writing Whole Numbers; Factors, Divisibility; Lines & Angles; Fractions, Percents; Inch Ruler)	<b>20</b>	<b>Lessons 64-67</b> (Adding Signed Numbers; Ratio Problems with Totals; Circumference and Pi; Geometric Solids)
<b>3</b>	<b>Lessons 9-11</b> (Operations with Fractions; Reciprocals; Mixed Numbers & Improper Fractions; Problems about Combining & Separating)	<b>21</b>	<b>Lessons 68-70</b> (Algebraic Addition; Scientific Notation; Volume )
<b>4</b>	<b>Lessons 12-15</b> (Problems about Comparing; Elapsed-Time Problems; Problems with Equal Groups; Problems about Parts of a Whole; Equivalent Fractions; Reducing Fractions)	<b>22</b>	<b>Lessons 71-74</b> (Finding the Whole-Given a Fraction; Implied Ratios; Mult & Div Signed Numbers; Fractional Part of a Number)
<b>5</b>	<b>Lessons 16-18</b> (US Customary System; Measuring Angles with a Protractor; Polygons, Similar and Congruent)	<b>23</b>	<b>Lessons 75-77</b> (Area of a Complex Figure; Area of a Trapezoid; Complex Fractions; Percent of a Number)
<b>6</b>	<b>Lessons 19-22</b> (Perimeter; Exponents, Rectangular Area, Square Roots; Prime and Composite Numbers; Fraction of a Group)	<b>24</b>	<b>Lessons 78-81</b> (Graphing Inequalities; Quantitative Comparisons; Transformations; Using Proportions to Solve Percent Problems)
<b>7</b>	<b>Lessons 23-25</b> (Subtracting Mixed Numbers w/ Regrouping; Reducing Fractions; Dividing Fractions)	<b>25</b>	<b>Lessons 82-84</b> (Area of a Circle; Multiplying Powers of 10; Multiplying with Scientific Notation; Algebraic Terms;)
<b>8</b>	<b>Lessons 26-29</b> (Mult & Div Mixed Numbers; Multiples, LCM, Equivalent Division Problems; Two-Step Word Problems; Average; Rounding & Estimating)	<b>26</b>	<b>Lessons 85-88</b> (Order of Operations with Signed Numbers; Functions; Number Families; Multiplying Algebraic Terms; Unit Multipliers; Converting Units of Area)
<b>9</b>	<b>Lessons 30-32</b> (Common Denominators; Fractions with Different Denominators; Metric System)	<b>27</b>	<b>Lessons 89-90</b> (Diagonals; Interior Angles; Exterior Angles; Mixed Number & Negative Coefficients;)
<b>10</b>	<b>Lessons 33-36</b> (Comparing and Rounding Decimals; Number Lines & Decimals; Operations with Decimals; Ratio, Simple Probability)	<b>28</b>	<b>Lessons 91-94</b> (Evaluations with Signed Numbers; Signed Numbers w/out Parentheses; Percent of Change; Two-Step Equations and Inequalities; Compound Probability)
<b>11</b>	<b>Lessons 37-39</b> (Area of a Triangle; Rectangular Area; Graphs; Proportions)	<b>29</b>	<b>Lessons 95-97</b> (Volume of a Right Solid; Estimating Angle Measures; Distributive Property with Algebraic Terms; Similar Triangles)
<b>12</b>	<b>Lessons 40-43</b> (Sum of Angle Measures in a Triangle; Angle Pairs; Using Formulas; Distributive Property; Repeating Decimals; Converting Dec, Fract & Percents)	<b>30</b>	<b>Lessons 98-100</b> (Scale; Scale Factor; Pythagorean Theorem; Estimating Square Roots; Irrational Numbers)
<b>13</b>	<b>Lessons 44-46</b> (Division Answers; Dividing by a Decimal; Unit Price, Rates, Sales Tax;)	<b>31</b>	<b>Lessons 101-104</b> (Translating Expressions into Equations; Transversals; Simplifying Equations; Powers of Negative Numbers; Dividing Terms; Semicircles, Arcs, Sectors)
<b>14</b>	<b>Lessons 47-49</b> (Powers of 10; Fraction-Decimal-Percent Equivalents; Adding Mixed Measures)	<b>32</b>	<b>Lessons 105-107</b> (Surface Area of Solids & Spheres; Solving Literal Equations; Formulas; Slope)
<b>15</b>	<b>Lessons 50-53</b> (Unit Multipliers; Order of Ops; Scientific Notation; Multiplying Rates)	<b>33</b>	<b>Lessons 108-111</b> (Formulas & Substitution; Equations with Exponents; Simple & Compound Interest; Scientific Notation Dividing)
<b>16</b>	<b>Lessons 54-56</b> (Ratio Word Problems; Average; Subtracting Mixed Measures)	<b>34</b>	<b>Lessons 112-114</b> (Applications of Pyth Theorem; Volume; Graphing Linear Inequalities)
<b>17</b>	<b>Lessons 57-59</b> (Negative Exponents; Line Symmetry; Functions; Adding Integers)	<b>35</b>	<b>Lessons 115-118</b> (Volume & Capacity, Factoring Algebraic Expressions; Slope/Intercept Form of a Line; Copying Angles & Triangles)
<b>18</b>	<b>Lesson 60</b> (Fractional Part of a Number; Percent of a Number)	<b>36</b>	<b>Lessons 119-120</b> (Division by Zero; Graphing Nonlinear Equations)

*These plans are a guideline and may be altered throughout the year. Circumstances such as hurricanes or other events may require that this schedule be updated.*

**Students are given specific weekly assignment sheets with all the details necessary to complete the assignments. Assignment sheets can also be accessed through PRAXI.**