COURSE OVERVIEW

Course Title: Algebra 1B

Teacher: Liz Darnell

I bring my 25+ years as a math teacher, Saxon training, and experience to the classroom. I encourage unique problem-solving perspectives but will train all students in solid and consistent math strategies that they will be able to build on.

Contact Information:

Phone: 407-468-5055. (You can text me)

Email: liz@wearetherockofcf.org

The best time to reach me is: Monday, Wednesday, or Friday aftrnoons Check my SETMORE site to schedule an appointment. https://therockacademy.setmore.com/

Course Overview

This course is designed to be a ramp from Pre-Algebra to traditional Algebra I. Students that have COMPLETED Algebra 1A are eligible to take this 1B course to complete the high school graduation requirement of Algebra I. Students will cover ALL the same text, concepts, and rigor of the traditional Algebra 1 course, but they will take 2 years to do it instead of 1. Students who are secure in their understanding and application of Algebra I skills are more likely to be successful in future math courses.

Students will be responsible for being present for class, participating in the teaching/learning process, having their homework graded, completed, and turned in on time, asking questions, and requesting help as needed.

Students will be provided with interactive, in-class teaching, weekly videos for reinforcement if needed, and Guided Study time to complete all assignments. If more assistance is necessary, parents may need to hire a private tutor. Please contact me if your student is struggling.

Goals: Each student will be able to:
- Achieve independent mastery of the Algebra skills taught
- Hone their problem-solving skills as it relates to math and other areas of life
- Take on the challenge of math and overcome deficits and/or fear of the subject
- See the beauty of Intelligent Design in all facets of their math experience
- Improve their time management and organizational skills
- Be prepared for standardized testing as well as future math courses

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Algebra 1B Course Overview

Week-by-Week Overview

Semester I	Semester II
Week 1 – Lessons: 60-61 Review and Subsets of Real Numbers	**Week 19** – Lesson 91 & 92, Properties of Inequalities; Spheres; Word Problems
Week 2 –Lesson 62 Square Roots; **Quiz 1.1**	**Week 20** –**Test 22.** *MLK Week*
Week 3 – Lessons 63 & 64 Products of Square Roots; Domain; Add Property of Inequalities	**Week 21** – Lessons 93 & 94, Products & Quotients of Rational Expressions; Uniform Motion
Week 4 – Lessons 65 & 66 Radical Expressions; Weighted Average; **Quiz 1.2 Assign Project**	**Week 22** – Lessons 95 & 96, Graphs of Non-Linear Functions; Diff of 2 Squares Theorem; **Assign Project**
Week 5 – Lesson 67 Equivalent Equations; Elimination; **Test 15**	**Week 23** – Lessons 97 & 98, Angles, Triangles; Pythagorean Theorem; Distance; Slope Formula **Test 23**
Week 6 –Lessons 68 & 69, Complex Fractions; Factoring Trinomials	**Week 24** – Lessons 100 & 101, Place Value; Factorable Denominators
Week 7 – Lessons 70 & 71 Probability; Designated Order; More on Factoring Trinomials; **Test 16**	**Week 25** – Lessons 102 & 103 Absolute Value Inequalities; Rational Equations **Test 24**
Week 8 – Lessons 72 & 73, Factors that are Sums; Diff of Two Squares	**Week 26** – Lesson 104 & 105 Abstract Rational Equations; Factor by Grouping
Week 9 – Lesson 74, Scientific Notation; **Test 17 Quarter 1 Project Due Notebooks Due**	**Week 27** – **TEST 25 Quarter 3 Project & Notebooks**
Week 10 – Lesson 75, Writing the Equation of a Line; Slope Intercept Graphing	**Week 28** – Lessons 106 & 107, Linear Equations; Through Two Points; Parallel Lines;
Week 11 – Lesson 76 & 77, Factors & Coefficients; Distributive Property; Consecutive Odd & Even Integers **Test 18**	**Week 29** – Lessons 108 & 109, Square Roots & Radical Equations; Advanced Trinomial Factoring; **Quiz 4.1**
Week 12 – Lesson 78 & 79, Rational Equations; Systems of Equations;	**Week 30** – Lesson 110, Transformations **Test 26**
Week 13 – Lesson 80 & 81, Scientific Notation; Graphical Solutions; **Test 19**	**Week 31** – Lessons 111 & 112 Conjunctions & Disjunctions; Multiplying Radical Expressions **Quiz 4.2**
Week 14 – Lesson 82, 83, 84 Evaluating Functions; Domain & Range; Coin Problems; Multiplying Radicals	**Week 32** – Lessons 113 & 114 Inverse Variation; Exponential Growth
Week 15 – Thanksgiving Week **Test 20**	**Week 33** – Lessons 115 Linear Inequalities
Week 16 – Lessons 86 & 87, Division of Polynomials; Tests for Functions	**Week 34** – Lessons 117, Direct & Inverse Variation Squared **Test 27**
Week 17 – Lessons 88 & 89, Quadratic Equations-Solve by Factoring; Exponents; Zero Exponents	**Week 35** – Lesson 118 Completing the Square
Week 18 – Lesson 90, Word Problems **Test 21 Semester 1 Notebooks Due. Quarter 2 Project Due**	**Week 36** – Lesson 119 , Quadratic Formula **Test 28 Notebooks Project Quarter 4 Due**

This schedule is an overview. TRA reserves the right to make changes during the school year.

Supplies Needed for this Course
- Saxon Algebra 1 (Orange) Textbook 3rd Edition
- Solutions Manual or Answer Key
- Scientific Calculator (not graphing—typically around $10)
- 1.5" 3-Ring Binder with 3 dividers
- General Supplies: Pencils, Erasers, Ruler, Paper, (Lined and Graph Paper)

The Classroom:
- Class starts on time. Tardies and Absences will be recorded
- Students are to come to class PREPARED with their previous homework completed and scored
- Class will include review of previous concepts, and the introduction of new material using a variety of presentations (visual, aural, and tactile) encouraging participation in the process
- Students will practice in class, ask questions, and work together
- Students will clearly know what is expected of them throughout the week based on the Assignment Sheet provided
- Students have access to assistance in class, Guided Study and Math Lab throughout the week.

At Home or Guided Study
- Have an organized workspace and know where your supplies are
- Put your finished work IN YOUR NOTEBOOK to bring to class
- Have a schedule for completing your daily work
- Mark your Assignment Sheet when a lesson is completed

How to Get an 'A' in this Class:
- Follow directions!
- Be prepared for class
- Ask for help when needed
- Be neat—or be working on being neater and more organized
- Keep up with the assignments and turn things in ON TIME
- Prepare for tests and take them seriously—Always do your best
- Take advantage of the resources provided and show that you are serious about succeeding

Extra Credit:
- May or may NOT be offered each quarter
- Is not to bail out a student if they have not followed the procedures for the quarter
- When offered, is optional and is only counted in the overall grade if it helps a student's grade.

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Absence and Late Work Policies

See your FACTS Agreement for these policies. I WILL NOT accept any homework that is over 2 class periods late unless it has been worked out prior with me. **There are no exceptions to this rule!** You must text, email or speak to me to work out a new assignment date for sickness, vacations, or any other EXCUSED ABSENCES.

Expectations

You may expect the Teacher to:

- Be prepared, on time and fair in the classroom.
- Post grades in a consistent and timely manner to FACTS
- Respond to phone or email messages within 24 hours.
- Be available for conferences or discussions per appointment. Please text or use Setmore Site.
- Work hard to see every student succeed.
- Be available by text or email to answer questions or concerns.

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I will expect the Parents to:

- Be aware of the current assignments for their students.
- Oversee the work at home (even if your child is in Guided Study), making sure that students complete the assignments and have their materials ready to turn in
- Provide the materials the students need to be successful in this class.
- Proctor the Take-Home Tests, signing and sealing them to be returned to class
- Contact the teacher if there are any problems ASAP
- **Check grades AT LEAST every week** on FACTS to see how their child is doing! This is IMPERATIVE.

I will expect the Student to:

- Be polite and always have good manners! (See the Code of Conduct)
- Keep current with all assignments.
- Work on keeping organized and neat
- Do all their own work with honesty and integrity
- Ask questions and ask for help when they need it.
- ALWAYS be prepared for class, that includes course material, paper, and writing utensils.
- Check FACTS regularly to see how they are doing.