



COURSE OVERVIEW

Course Title: Algebra 1A

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:

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The best time to reach me is: Tuesday or Thursday morning. 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 taking 1A will also have to take a year of 1B 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, weekly Math Lab assistance, and Guided Study time to complete all assignments. If more assistance is necessary, parents may need to hire a private tutor.

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

Algebra 1A Course Overview

Week-by-Week Overview

Semester I	Semester II
Week 1 – Lesson 1 Intro to Algebra; Review of Fractions Quarter 1 Project Assigned	Week 19 – Lesson 31, Equations with Parentheses; Quarter 3 Project Assigned
Week 2 – Lesson 2 Intro to Geometry; Review of Basic Terms and Concepts Quiz 1.1	Week 20 – Lesson 32 Word Problems Test 7
Week 3 – Lessons 3 & 4 Perimeter, Circumference, Review of Arithmetic	Week 21 – Lessons 33 & 34, Products of Prime Factors; Greatest Common Factor (GCF) Quiz 3.1
Week 4 – Lessons 5 & 6, Sets; Absolute Value; Addition of Signed Numbers; Rules for Addition Quiz 1.2	Week 22 – Lessons 35 & 36, Factoring the GCF; Dist Property w/ Rational Expressions; Neg Exp Test 8
Week 5 – Lessons 7 & 8, Opposite of a Number; Simplification; Area Test 1	Week 23 – Lessons 37 & 38, Inequalities w/ Graphical Solutions; Ratio Problems
Week 6 – Lessons 9 & 10, Multiplying/Dividing Signed Numbers; Division by Zero; Area Conversion	Week 24 – Lessons 39 & 40, Trichotomy Axiom; Negated Inequalities; Adv. Ratio Problems Test 9
Week 7 – Lessons 11 & 12, Reciprocal and Multiplicative Inverse; Order of Operations; Symbols of Inclusion Test 2	Week 25 – Lessons 41 & 42 Like Terms in Rational Expressions; Two-Step Problems; Multi-Variable Equations Quiz 3.2
Week 8 – Lessons 13 & 14, Products of Signed Numbers; Evaluation of Algebraic Expressions	Week 26 – Lesson 43 & 44 Least Common Multiple;
Week 9 – Lesson 15, Surface Area; Midterm Exam Quarter 1 Project Due Notebooks Due	Week 27 – Lesson 45 Range, Median, Mode and Mean Midterm Exam Quarter 3 Project Due Notebooks
Week 10 – Lesson 16, More Complicated Evaluations Quarter 2 Project Assigned	Week 28 – Lesson 46, Conjunctions Assign Quarter 4 Project
Week 11 – Lesson 17, Factors & Coefficients; Distributive Property Test 3	Week 29 – Lesson 47, Percents Less than 100; Percents Greater than 100
Week 12 – Lesson 18 & 19, Like Terms; Exponents; Powers of Negative Numbers; Roots; Evaluation of Powers Quiz 2.1	Week 30 – Lessons 48 & 49, Polynomials, Degrees, Adding & Multiplying Polynomials Test 11
Week 13 – Lesson 20 & 21, Volume; Product Rule for Exponents; Like Terms with Exponents Test 4	Week 31 – Lessons 50 & 51 Polynomial Equations; Ordered Pairs; Coordinate System; Graphing Lines Quiz 4.1
Week 14 – Lesson 22 ,23, 24 Statements and Sentences; Conditional Equations; Add/Mult Property of Equality	Week 32 – Lessons 52 & 53 Adding Rational Expressions; Overall Avg; Power Rule; Vol Test 12
Week 15 – Lesson 25, Multiplicative Property of Equality; Solution of Equations Test 5	Week 33 – Lessons 54 & 55 Substitution Axiom; Solving Equations; Complex Fractions
Week 16 – Lessons 26 & 27, More Complicated Equations; Simplifying Decimal Equations Quiz 2.2	Week 34 – Lessons 56 & 57, Finite & Infinite Sets; Add Algebraic Expressions w/ Neg Exp Test 13
Week 17 – Lessons 28 & 29, Fractional Parts; Functional Notation	Week 35 – Lesson 58 & 59 Percent Word Problems; Rearranging for Substitution; Quiz 4.2
Week 18 – Lesson 30, Algebraic Phrases Final Exam Semester 1 Notebooks Due. Quarter 2 Project Due	Week 36 – Lesson 60, Geometric Solids Final Exam Notebooks Due 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.

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.

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.