New Course FACT Sheet 2024-2025

Course Title: *Algebra 2*

Teacher Contact Information:

- Please email me (liz@wearetherockofcf.org) or text me 407-468-5055 during regular school hours. I do not check either in the evenings or on weekends.

Course Overview:

- This course includes a substantial review of Geometry Concepts.
- Supplemental materials will be provided for concepts required by the state.
- Saxon Math is built on incremental development (small pieces) and continual review (master is developed over time with constant repetition).

Supplies List

- Supplies are on the website. https://www.therockacademyfl.com/copy-of-algebra-i-hs-3
- Students are required to be prepared for EVERY class period.

The Successful Student:

- Arrives on time to class with EVERYTHING he/she needs.
- Maintains the math notebook weekly.
- Has homework scored and questions marked and ready to go for class.
- Follows directions and asks for help when needed.
- Turns all work in complete and on time.
- Takes advantage of resources provided by the teacher.

The Successful Parent:

- Checks FACTS every week—all year long!
- Communicates in a timely manner with questions or concerns.
- Seeks out support and help needed for a struggling student.

Homework Policy

- Work that is not turned in on time in class does NOT receive full points
- Work not turned in within a week of the due date is given a zero.
- Students found **cheating or copying** will be given zeroes and risk being removed from the class and/or the school.

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

New Course FACT Sheet 2024-2025

Algebra 2 Week-by-Week Overview

Semester I	Semester II
Week 1 – Lessons 1, 2, & 3—Polygons; Neg Exponents; Evaluation of Expressions; Adding Like Terms	**Week 19** – Lessons 59 & 60—Experimental Data; Rectangular Form; Direct & Inverse Variation
Week 2 – Lessons 4, 5, & 6—Distributive Property; Word Problems; Fractional Parts; Equations w/ Decimals; Consecutive Integers. Focus on FUNCTIONS	**Week 20** – Lessons 62 & 63—Complex Roots of Quadratics; Addition of Vectors Focus on QUADRATICS
Week 3 – Lessons 7, 8 & 9—Percent; Polynomials; Graphing Linear Equations; Percent Word Problems Focus on FUNCTIONS	**Week 21** – Lessons 64, 66, & 67—Complex Numbers; 30-60-90 Triangles; Radical Denominators Focus on QUADRATICS
Week 4 – Review and Pythagorean Theorem Focus on FUNCTIONS	**Week 22** – Lessons 69, 70, & 71—Gas Law Problems; Advanced Abstract Equations; Quadratic Formula Focus on QUADRATICS
Week 5 – Lesson 11 & 12 Addition of Fractions; Equation of a Line Focus on FUNCTIONS	**Week 23** – Lessons 72, & 73—Experimental Data; Negative Angles; More Radical Denominators Focus on QUADRATICS
Week 6 –Lessons 13, 14, 15—Substitution; Finding the Equation of a Line; Elimination; Focus on FUNCTIONS	**Week 24** – Lessons 76, 79, 81—Substitution & Elimination; 45-45-90 Triangles; Complex Numbers Focus on QUADRATICS
Week 7 – Lessons 16, 17, & 18— Mult & Dividing Polynomials; Subscripted Variables, Ratio Word Problems Focus on FUNCTIONS	**Week 25** – Lessons 83, 84, 85—Variable Exponents; Solutions of Equations; Systems of Nonlinear Equations Focus on QUADRATICS
Week 8 – Lessons 19 & 20—Value Word Problems; Simplification of Radicals Focus on FUNCTIONS	**Week 26** – Lessons 86, 87, & 88—Trichotomy Axiom; Slope Formula; Distance Formula Focus on QUADRATICS
Week 9 – Lessons 22 Uniform Motion Wrap Up Focus on FUNCTIONS	**Week 27** – Lessons 89 & 90—Conjunctions & Disjunctions; Systems of Three Equations Focus on QUADRATICS
Week 10 – Lessons 24, 25, & 26—Fractional Equations; Monomial Factoring; Trinomial Factoring Focus on LOGARITHMS	**Week 28** – Lesson 93 & 94—The Discriminant; Functions Wrap up Focus on QUADRATICS
Week 11 – Lessons 27, 29, 31— Rational Expressions; Uniform Motion 2; Negative Reciprocals Focus on LOGARITHMS	**Week 29** – Lessons 95 & 96— Non-linear Systems; Joint Variation Focus on EXPONENTIAL GROWTH
Week 12 – Lessons 32, 35, & 36—Quotient Theorem; Angles in Polygons; Mult & Div. of Rational Expressions Focus on LOGARITHMS	**Week 30** – Lessons 99, 100, & 102—Absolute Value Inequalities; Graphs of Parabolas; Functions Focus on EXPONENTIAL GROWTH
Week 13 – Lessons 38, 39, & 43—Solve by Factoring; Diff of Two Squares; Sine, Cosine, Tangent Focus on LOGARITHMS	**Week 31** – Lessons 103, 109, 110—Polynomial Division; Fractional Exponents; Quadratic Inequalities (greater) Focus on EXPONENTIAL GROWTH
Week 14 – Lessons 41, 43, & 44—Unit Multipliers; Sine, Cosine, Tangent; Solving Right Triangles Focus on LOGARITHMS	**Week 32** – Lessons 111, 112, & 113 Three Statements of Equality; Quadratic Inequalities (less); Logarithms Focus on EXPONENTIAL GROWTH
Week 15 –Lessons 44, 45 & 46—Solving Right Triangles; Diff of 2 Squares Theorem; Radicals & Fractional Exponents **Thanksgiving Break**	**Week 33** –Lessons 115 & 116—Exponential Functions; Compound Interest; Fundamental Counting Principle Focus on EXPONENTIAL GROWTH
Week 16 – Lessons 47, 48, & 50—Rate Unit Conversions; Radical Equations; Quadratics/Completing the Square Focus on LOGARITHMS	**Week 34** – Lessons 117& 118 – Set Builder Notation; Interval Notation; Log Equations Focus on EXPONENTIAL GROWTH
Week 17 – Lessons 51, 53, & 54 –Imaginary Numbers; Unit Conversions; Polar Coordinates Focus on LOGARITHMS	**Week 35** – Lessons 121 & 122 – Rational Inequalities; Intersection of Sets; Unions; Venn Diagrams Wrap up of Focus on EXPONENTIAL GROWTH
Week 18 – Lessons 55 & 58—Word Problems with Quadratic Equations; Completing the Square Wrap up Focus on LOGARITHMS	**Week 36** – Testing and Notebook