00-Algebra 1 Overview/Scope & Sequence

Content Area: **Math**
Course(s):
Time Period: **Full Year**
Length: **Full Year**
Status: **Published**

General Overview, Course Description or Course Philosophy

The first of a sequential academic series of mathematics courses, Algebra 1 introduces the formal theories that underlie many of the techniques learned in arithmetic. Topics include: real and rational numbers and their relationships, algebraic expressions and operations, application problems and modeling, linear equations and expressions, simultaneous equations, operations with polynomials, quadratic equations and expressions, and an introduction to rational expressions.

Unit	Topic	Suggested Pacing
1	Functions	2 weeks (8-10 blocks)
2	Solving Linear Equations & Inequalities	5 weeks (18-20 blocks)
3	Graphing Linear Equations & Inequalities	3-4 weeks (12-14 blocks)
4	Monomials & Polynomials	3-4 weeks (12-14 blocks)
5	Factoring Polynomials	3 weeks (10-12 blocks)
6	Quadratic Equations & Functions	5 weeks (18-20 blocks)
7	Systems of Equations & Inequalities	2-3 weeks (7-10 blocks)
8	Radicals	3 weeks (10-12 blocks)
9	Rational Expressions	3-4 weeks (12-14 blocks)
10	Graphing Non-Linear Functions	2 weeks (8-10 blocks)

OBJECTIVES, ESSENTIAL QUESTIONS, ENDURING UNDERSTANDINGS

CONTENT AREA STANDARDS

RELATED STANDARDS (Technology, 21st Century Life & Careers, ELA Companion Standards are Required)

EVIDENCE OF LEARNING

Alternate Assessments

- Portfolios
- Verbal Assessment (instead of written)
- Multiple choice
- Modified Rubrics
- Performance Based Assessments

Formative Assessments

Summative Assessments

RESOURCES (Instructional, Supplemental, Intervention Materials)

ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS

See link to Accommodations & Modifications document in course folder.

INTERDISCIPLINARY CONNECTIONS