

7th Grade AT Algebra **Curriculum Overview**

Students will continue to strengthen their mathematical fluency in operations with rational numbers and solving equations. The Algebra 1 curriculum aligns with many of the 8th grade and Algebra standards. These standards include Number & Quantity, Algebra, and Functions. The ability to apply previous knowledge of standards is imperative and students will be expected to use their resources to enhance their understanding.

The course uses the 2019 Big Ideas Math series. Each child has an online student edition, with additional resources for parents and students to access anytime. These resources include video tutorials, test practice, a glossary with audio, progress checks, vocabulary help, manipulative visual aids, skill reviews, and a game closet to reinforce skills. The resources and online student edition can be accessed at www.bigideasmath.com.

Skills to be developed throughout the course:

Standards for Mathematical Practice

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

Units of Study:

- Linear Equations & Inequalities
- Graphing & Writing Linear Functions
- Solving Systems of Linear Equations
- Exponential Functions
- Polynomial Equations & Factoring
- Graphing & Solving Quadratic Functions
- Radical Functions & Equations

The Learning Standards for this course align to Common Core Standards.
Priority standards should be are linked below:

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