

La Academia: 9th Grade Math Standards

**Mathematical Mindsets**

*I will be able to demonstrate…*

* Confidence in your ability to learn mathematics.
* An appreciation for the importance of mathematics in our society.
* An understanding of how math will influence me personally in my own life.

**Basic Numerical Skills and Applications**

*I will be able to demonstrate fluency, comprehension, and applications of…*

* Basic numerical operations (+, -, ×, ÷) involving:
  + Whole numbers
  + Integers
  + Fractions
  + Percentages and decimals
* Estimating and rounding
* Exponents
* Ratios and proportions
* Simple financial literacy

**Algebra**

*I will understand…*

* The **Language of Algebra**
* The relationship between graphs, equations, and tables
* Linear equations
* Exponential equations

**Statistics and Probability**

* Interpret and create graphs, tables, and charts.
* Use and apply **simple probabilities**
* Understand and calculate **simple statistics**

**Modeling**

*I will create projects using technology that demonstrate my understanding of mathematics.*



La Academia 10th Grade Math Standards

**Mathematical Mindsets**

*I will be able to demonstrate…*

* Confidence in your ability to learn mathematics.
* An appreciation for the importance of mathematics in our society.
* An understanding of how math will influence me personally in my own life.

**Geometry**

*I will be able to demonstrate fluency, comprehension, and applications of…*

* Properties of Triangles
* Measuring angles, lengths, widths, and volumes
* Dimensions and multiple measurement systems
* Perimeters and areas
* Surface area and volume
* Similarity and proportions in geometric modeling.

*In my pursuit to become* ***college prepared****, I will be able to demonstrate an understanding of…*

* Mathematical proofs and deductive reasoning
* Abstract Euclidian geometry
* Trigonometry

**Algebra and Basic Numerical Skills Maintenance**

*To continue building and maintaining my mathematical skills, I will continue to practice and review…*

* The **Language of Algebra**
* Linear equations
* Exponents and Square Roots
* Ratios and proportions
* Estimate and rounding

**Modeling**

*I will create projects with physical materials that demonstrate my understanding of mathematics.*



La Academia 11th and 12th Grade Math Standards

**Mathematical Mindsets**

*I will be able to demonstrate…*

* Confidence in your ability to learn mathematics.
* An appreciation for the importance of mathematics in our society.
* An understanding of how math will influence me personally in my own life.

**Algebra**

*In this class, I will be able to demonstrate a deeper and more complex understanding of…*

* The connection between graphs, equations, and tables
* The **Language of Algebra**
* Linear equations
* Exponential equations
* Financial literacy

*I will understand and become familiar with…*

* Multiple number systems
* Multiple types of **Functions** from the list below:
  + Linear, Exponential, Quadratic, Polynomial, Rational, Logarithmic, Trigonometric, Radicals

*In my pursuit to become* ***college prepared****, I will be able to demonstrate proficiency in…*

* Solving and analyzing **Quadratic** equations
* Exploring and interpreting different types of functions
* Identifying and finding **critical features** of functions
* Recognize patterns and select appropriate mathematical functions to model situations

**Modeling**

*I will create projects using technology that demonstrate my understanding of mathematics.*