

LIBERTY LIBERAL ARTS ACADEMY
Middle School Math
Pre-Algebra

Teacher: Mrs. Lopez

Grade Levels: 7th – 8th

Teacher Compensation: \$225 annually payable in 9 monthly payments of \$25

Semester Supply Fees: \$25 due each semester. Fall Semester fee is due 1st week of July to secure Student's place in class or on Orientation day. Spring Semester fee is due in January.

Curriculum: Teacher will supply all texts and workbooks

Class Description: Pre-Algebra, negative numbers, order of operations, solving for the unknown, and other topics.

Major Concepts and Skills Include:

- Fluently adding, subtracting, multiplying, and dividing positive and negative numbers
- Understanding and simplifying exponents
- Using properties of operations, order of operations, and absolute value
- Expanding understanding of place value
- Evaluating radicals
- Identifying the least common multiple and greatest common factor

Additional Concepts and Skills:

- Using the Pythagorean theorem to identify triangle attributes
- Transforming temperatures between Celsius and Fahrenheit
- Understanding and computing surface area and volume
- Adding and subtracting time using both 12-hour and military notation
- Adding and multiplying polynomials
- Identifying rational and irrational numbers