TOPICS TO STUDY FOR MAH+LCON

- ❖ The following topics provide a framework for MathCON.
- * These topics are not curriculum.
- ❖ It is recommended that students review previous grade topics.
- ❖ Any grade level's topics are related to the previous grade level and promote continuous improvement over the years.
- ❖ A MathCON test consists of multiple-choice questions covering the following topics: Algebra, Geometry, Number Theory, and Combinatorics
- ❖ There could be questions from different topics that aren't listed below at MathCON.

TOPICS TO STUDY FOR MAH+LCON

5TH **GRADE MATH**

- Numerical expressions
- Pattern of numbers (sequences) and shapes
- Ordered pairs
- Place Value
- Convert between standard and expanded form
- Operations with decimal numbers and comparing decimal numbers
- Rounding decimal numbers
- Operations with fractions and comparing fractions
- Compare decimals and fractions
- Scientific notation
- Powers of ten
- Understanding and evaluating exponents
- Divisibility rules
- Prime and composite numbers
- Greatest common factor
- Least common multiple
- Multi-step word problems involving
- Venn diagrams
- Convert between percents, fractions, and decimals
- Percent of a number
- Graph points on a coordinate plane
- Evaluate variable expressions
- Data and graphs
- ❖ Mean (average), mode, median, range problems
- Two-dimensional figures
- Triangles and quadrilaterals
- Word Problems
- Inequalities

TOPICS TO STUDY FOR MAHH-CON

- ❖ Exponential Numbers, powers of 2, 3, 5
- Sum of finite number of numbers
- Division Algorithm, Remainder, Divisibility Rules
- * Two-Step Equations, Rules for Table of Values
- Perimeter, Area, volume
- ❖ Odd Number, Even Number problems