

## AMC8/Algebra Course Syllables – Summer 2020

Note: Due to the current COVID-19 situation, the course is planned to be taught online with ZOOM, tentatively. Further notice will be sent out if any changes.

For Students Entering Grade 7 in August, 2020.

### Keywords for American Mathematics Contest 8, aka AMC 8:

- Open to students grade 8 and younger who are under 14.5 years of age.
- The test has 25 multiple choice questions with a time limit of 40 minutes. Each question is worth 1 point. There is no penalty for guessing or wrong answers.
- No calculators are allowed on the test.
- Top scoring students can receive awards:
  - Honor Roll: Awarded to scores in (approx.) the top 5%. Typically requires a score of around 16.
  - Distinguished Honor Roll: Awarded to scores in (approx.) the top 1%. Typically requires a score of around 20.

### Placement Test:

All students need to take a 30-minute placement test prior to class enrollment. The placement test contains Algebra I and Geometry.

### Workbooks:

No textbook No workbook.

Archived Exams, Mock Exams, Supplement materials will be provided as handouts, or lecture slides. Any math questions you have are welcomed!

### Course Goals:

Succeed on AMC 8. For students who are not taking AMC 8 soon, this course provides you a way to learn new math, and systematically build your progress on math.

### Exit Tickets:

There will be short quizzes periodically. Students are expected to follow standardized test-taking rules.

### Course Content:

10 classes. Every class is 2 hours. One class per week.

Knowledge and problem solving skills in Pre-Algebra/Algebra, Geometry, Counting & Probability, and Number Theory. How to apply math knowledge to the real world, including reading information on charts and graphs.