



Plainview-Old Bethpage Central School District

106 Washington Avenue, Plainview, NY 11803

Dr. Regina Lee

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Dear Parent/Guardian:

On Thursday, November 5, JFKHS will be administering the American Mathematics Competition 10/12 to students who choose to take the exam. The AMC 10/12 is an OPTIONAL exam, and its main purpose is to spark interest in mathematics and develop talent through the excitement of solving challenging problems. The exam consists of 25 multiple-choice questions given over 75 minutes.

One of the goals of the AMC 10/12 is to help identify and recognize those students who possess exceptional talent in mathematics. By participating in AMC 10/12, students have the opportunity to see how they compare to other students throughout the nation. For AMC 10, invitations to take the American Invitational Mathematics Examination (AIME) are issued to at least the top 2.5% of all scorers. For AMC 12, invitations are issued to at least the top 5% of all scorers. The exact cutoffs will depend on the difficulty of each competition.

- The AMC 10 covers mathematical concepts related to algebra and geometry that are typically associated with grades 9 and 10. The AMC 10 assumes knowledge of elementary algebra, basic geometry including the Pythagorean Theorem and area/volume formulas, elementary number theory, and elementary probability. The following topics are excluded from AMC 10: trigonometry, advanced algebra, and advanced geometry.
- The AMC 12 covers the high school mathematics curriculum (excluding calculus), and contains problems that can be solved with an understanding of pre-calculus concepts.
- A student in 10th grade or below wishing to take the AMC 12 should have a strong problem solving knowledge in advanced algebra, analytic geometry, function notation, logarithms, trigonometry, and complex numbers.

Past exams and solutions for the AMC 10 and AMC 12 are available on the District's website contained within the [webpage](#) of the Mathematics Department (under "All Things Math and Computer Science Related-Information & Resources" → "American Mathematics Competition"). If your child is unsure about taking this exam, please have your child reach out to his/her math teacher.

If your child is interested in taking this *optional* exam, please click [HERE](#) to have your child sign up.

The sign-up deadline is by the end of the school day on **Wednesday, October 14.**

You can find additional information about the AMC exam here: <https://maa.org/student-programs/amc/>

Sincerely,

Dr. Regina Lee

Director, Mathematics and Computer Science, K-12