

Math Club 5 Class Information

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Welcome to Math Club 5 at SchoolNova!

Instructor Information

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General Information

The Club is intended for children in Grades 4-6. The goal of the club is to kindle enthusiasm in Mathematics for young children, and develop creative problem-solving skills. We will participate in the MOEMS Math Olympiad, and study some cool math topics, such as Codes and Ciphers, Probability and Combinatorics.

Activities

There will be a total of **25 classes** for the year. The number of classes for each activity is summarized below. A detailed schedule is posted separately.

- Writing the MOEMS Math Olympiad: 5 classes
- Math Kangaroo Practice: (during MOEMS test, for students not taking the MOEMS)
- Math Olympiad Practice: 8 classes
- AMC 8 Practice: 2 classes
- Math Project & Presentation: 4 classes
- In the remaining 6 classes, we will cover some fun math topics from the list below:
 - Codes and Ciphers
 - Conway's Game of Life
 - Fun Probability
 - Games and Movies

Cost to Students

There is some cost associated with the clubs. Since we are doing SchoolNova and the clubs online this year, parents will be asked to directly purchase the MOEMS packets and material for the project. SchoolNova will pick up costs for a few other things, such as MOEMS registration and some math books. You will be notified of any other costs.

Homework

There will be no regular homework posted. Students practice MOEMS at home and in-class with the packets. Projects and games will be done during class, and occasionally assigned for homework. Students should have a notebook to log their work.

Math Competitions

- We will participate in the MOEMS Math Olympiad (OnLine version). The contests will be held during the Club. Detailed information on this is posted in a separate document.
- We will also do some practice AMC 8 (American Mathematics Competition) tests. This test is typically taken by students in grades 7 & 8; there is a separate recognition for younger students. Those who would like to participate can let me know. This competition is held in November.
- Students not taking the MOEMS in the Math Club can do practice Math Kangaroo during contests.

Class Format

- **Zoom Classes:** Our classes will be held online via Zoom. A link to the class will be posted in the Google classroom, and sent to the students/parents.
- **Google Classroom:** Students will receive an invitation to join the Google classroom. All the necessary class material and announcements will be posted here. A separate document on how to join the Google classroom is posted.

Zoom Information

If you are new to Zoom, please go to [Zoom.us](https://zoom.us) and sign up for free. Then download an app to your device from the Download Center. You can also join a test meeting to familiarize yourself with Zoom prior to our scheduled class.

Please make sure that the student is equipped with a working webcam and a microphone. Headphones, with a mic, are highly recommended for the quality of sound during the class. Working remotely makes all of us dependent on a fast and reliable internet connection. If the connection malfunctions, either for the student or the teacher, we will communicate via email or Google classroom, to try and reconnect.

Resources

Some of the resources utilized for the club are listed below:

- *Math Olympiad Contest Problems for Elementary and Middle School*, Dr. George Lenchner, Glenwood Publications, 1997.
- *Mathematicians Are People, Too*, Luetta Reimer and Wilbert Reimer, Dale Seymour Publications, 1994.
- *The Story of Mathematics: From Ancient Babylon to the Last Unsolved Problems*, Ian Stewart, Quercus Publishing, 2007.
- *The Colossal Book of Mathematics: Classic Puzzles, Paradoxes and Problems*, Martin Gardner, W. W. Norton & Company, 2001.