

# 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 material fee associated with the clubs. For the in-person clubs, we will be providing the MOEMS packets and some other material.

## Homework

There will be no regular homework posted. Students practice MOEMS in-class and at home 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. 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 January.
- Students not taking the MOEMS in the Math Club can do practice Math Kangaroo during this time. This competition is held in March.

### **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.

### **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.