

Mathematics Olympiad Syllabus

Sep. 9, 2018 to May 5, 2019

Instructor Information

Instructor	Email	Telephone
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General Information

Description

We will solve and comment on 4-5 math problems in every class period to:

- Stimulate children's interest and enthusiasm for problem solving;
- Broaden their mathematical intuition and develop their "brain power";
- Introduce them to interesting and important mathematics ideas;
- Let them experience the satisfaction, pleasure, fun, and thrill of discovery associated with creative problem solving.

Expectations and Goals

By using reasoning, pattern, picture or diagram, list, table, or working from backward, children can apply the strategies and skills they learn to solve problems.

Course Materials

No textbook required for the class. The instructor will prepare the problems for the class and homework.

Course requirement

Follow the instructor, focus on the problem, and be ready to volunteer. You will be given 4-5 problems homework, bring them back for grading next time.

Course Schedule

Date	Topic	Date	Topic
Fall Semester		Spring Semester	
09/09/18	Prerequisites	01/13/19	Towers of cubes
09/16/18	Divisibility and divisibility combination	01/20/19	Square numbers
09/23/18	Addition pattern	01/27/19	Average
09/30/18	Coins	02/03/19	Average
10/07/18	MCS Picnic, no class	02/10/19	Chinese New Year Party
10/14/18	Arithmetic series	02/17/19	Combination
10/21/18	Arithmetic sequence	02/24/19	Multiple and multiplication pattern
10/28/18	Primes and prime factorization	03/03/19	Area I
11/04/18	Cryptarithms	03/10/19	Spring break, no class

Date	Topic	Date	Topic
11/11/18	Cryptarithms	03/17/19	Area II
11/18/18	Clock and simultaneous events	03/24/19	Consecutive numbers
11/25/18	Thanksgiving, no class	03/31/19	Factors
12/02/18	Perimeter	04/07/19	Work
12/09/18	Remainder	04/14/19	Algebra
12/16/18	Work backward	04/21/19	Algebra
12/23/18	Winter break	04/28/19	Comprehensive
12/30/18	Winter break	05/05/19	Award Day
01/06/19	Winter break	05/12/19	Mother's day, no class
		05/19/19	Summer

Additional Information

No exam