



ACES Academic Enrichment Center

2019 Summer Enrichment Course Syllabus

Course Name: Competition Math for Elementary 2nd - 3rd Graders

Course Description

The competition math courses will give interesting math puzzles to students for increasing students' interesting and improving students' motivation. For each level's completion math problems, instructors will categorize problems into different problem types and work on each type of problem step by step. In our classes, we will cover all concepts/topics that frequently occur on the Elementary Math Competition and teach efficient strategies required for contest-based problem solving. We will review questions drawn from previous years' contests as well as a variety of carefully selected resources. Students will think and learn math skills that are different from their school classrooms. All math skills developed through these courses will be helpful not only for math competitions, but also for later other tests such as PSAT, SAT, ACT etc...

Course Objectives and Student Competencies

1. Introduce the students the world of competition math and the joy of mathematics
2. Teach students efficient strategies required for Contest-based problems solving skills
3. Help improve understanding of basic principles through numerical and word problems, exploration of mathematical knowledge, and improvement of analytical skills.
4. Help students improve their performance in math competitions, as well as their general mathematical skills if math competition is not their main goal.

Class Structure

Unlike traditional math competition club, our camp will not only let students do test problems by themselves. Our classes begin with an overview of the topic for the day. Then, our instructors will categorize problems into different problem types for the topic and work on each type of problem step by step. The class will encourage students to present their ideas to inspire their imagination.

Date	Topics	Homework
6/17	Properties of addition, subtraction, multiplication, and division	assignment #1
6/18	Basic Geometry	assignment #2
6/19	Reasoning	assignment #3
6/20	Problem Solving: word problems	assignment #4
6/21	Shape recognition	assignment #5