



## STEM (Math & CS) Pathway

### Introductory Math for Competitions & Standardized Tests (6-7th Grade)

Instructor: Philip Vuong

Sep 29 - Nov 19, 2020

T, Th (4:40-6:10 pm)

#### Course Description

Problem solving is an essential skill in the study of math. In this class, students learn how to tackle a variety of math problems, while learning how to work individually and in groups to create solutions. Students don't just learn math concepts through rote drilling. Rather, they learn how to be intuitive and creative in working with mathematical concepts.

#### Topics will include:

- Drawing a Picture or Diagram
- Finding a Pattern
- Making an Organized List
- Making a Table
- Solving a Simple Problem
- Trial and Error
- Experimenting
- Acting Out the Problem
- Working Backwards
- Writing an Equation
- Using Deduction

#### Program Objectives

This course teaches students the critical thinking and reasoning skills necessary for competition math and standardized test prep (PSAT, SSAT, SAT, ACT). In addition, they learn how to be more efficient in applying their mathematical thinking. A great course for students looking to bridge the gap between mathematical practice and computation to mathematical application and word problems.

#### Course Curriculum (provided)

- FLEX Math Problem Solving Strategies
- Math Kangaroo
- Practice math problems from various standardized tests

For more information or to register, please contact [pathways@flexcollegeprep.com](mailto:pathways@flexcollegeprep.com) or call (408) 252- 7742.

#### FREE 4 Week Preparation Course:

- Register by 8/31
- Classes on 9/3, 9/10, 9/17, 9/24
- Th (3-4:30 pm)

#### Instructor Background: Philip Vuong (FLEX College Prep Principal Instructor)

- 10+ years teaching competition and standard math topics at the middle and high school level
- Stanford University Math Camp (SUMaC): Former Curriculum Developer, Instructor and Admission Officer
- Stanford Online High School: Former AP Calculus Instructor
- Education: Stanford University, BS in Mathematics and BS in Electrical Engineering

#### Tuition: \$1,495 (+\$50 curriculum fee)

- Early registration: \$200 off by 8/31
- Returning students: 20% off by 8/24
- Returning students who refer a friend: both get total 40% off by 8/24
- Discounts cannot be combined with other offers
- Tuition must be paid in full to receive discounts