

## **Middle School (Grade 6-8) Math**

### **Rachel Zhou**

Hi everyone! I'm Rachel Zhou, and I'm excited to be joining the ICCCI Chinese School as a first-year math instructor. I'm currently a junior at Carmel High School, where I'm enrolled in AP Calculus BC and plan to take AP Statistics and Multivariable Calculus during my senior year. In the past, I've participated in math competitions like AMC 8 and MathCounts, which helped me strengthen my problem-solving skills and creative thinking.

My teaching experience includes mentoring through programs like United Sound, where I teach students to play the violin, as well as serving as an instructor for Learn to Skate classes at my local figure skating club. Outside of teaching, I'm involved in the Carmel Science Olympiad team, which competes in a wide range of STEM disciplines across the Midwest and qualified for the national tournament in 2024.

### **William Du**

Hey, my name is William Du. I am a junior at Carmel High School, and I have recently finished learning Calculus BC. Math is one of my stronger topics, and I am interested in learning new content as I plan to take AP Statistics and Multivariable Calculus this year. I have volunteered at ICCCI before as an assistant for one of the Chinese classes here. I look forward to working with everyone!

### Semester Agenda

15 weekly, 60-minute classes

Classes will typically include a mix of lessons, hands-on practice, and problem-solving activities. Some classes will focus more heavily on lecture, depending on the topic. Each student will have the opportunity to ask questions, work through problems with guidance, and receive personalized feedback throughout the semester.

Topics we will cover:

(These may vary depending on student level and progress; not all topics may be covered in one semester)

- Operations with integers, fractions, and decimals
- Order of operations and evaluating expressions
- Powers and roots
- Ratios, rates, proportions, and percentages
- Solving one and two-step equations and inequalities
- Working with linear equations
- Systems of equations
- Solving and graphing quadratic equations
- Simplifying nonlinear equations
- Exponents (integer, radical, negative)

### Classroom Expectations

Students are expected to be respectful, responsible, and engaged during class. I encourage everyone to participate actively in class, and to approach math with a positive attitude!

I'm looking forward to a great semester with you all!