Workshop Descriptions

1. AMC 8 & AMC 10

AMC 8: **7th-8thGrades**

AMC 10: **9th-10th Grades**

For years, the American Mathematical Association has encouraged students to discover their passion for mathematics through a nationwide competition. The **AMC 8** is geared towards **7th and 8th**graders looking to participate in the competition, while the **AMC 10** is geared towards **9th and 10th**graders. These programs will provide a framework in which students can become better problem-solvers and equip them for success in the AMC.

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2. MATHCOUNTS Middle School

Grades 6th-8th

This workshop looks to help students in their completion of the MATHCOUNTS program. MATHCOUNTS is a non-profit organization that provides math programs for middle school students throughout the nation to build confidence and encourage a positive attitude towards problem solving.

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3. Math Olympiad Elementary School& Math Olympiad Middle School

Math Olympiad Elementary School:**4th-5thGrades**

Math Olympiad Middle School: **6th-7th Grades**

The **Math Olympiad Elementary School** workshop focuses on students from the **grades 4-5**, while students from the **Math Olympiad Middle School** workshop focuses on students from grades **6-7**. These workshops provide a basis of which students from their respectivegrade levels can be successful in their participation of the Math Olympiad competition.The Math Olympiad fosters a love for mathematics through a worldwide problem solving competition. Last year, 50 states and 30 other countries were represented in the competition. This program will enhance students' mathematical capabilities and prepare them for the Math Olympiad.

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4. Middle School Essay Writing

Grades: 6th-8th

This workshop aims to teach basic essay writing skills to middle schoolers so that they are proficient in basic essay structure and fully prepared to enter higher course levels in high school and beyond. This small class setting will ensure that each student knows how to write a structured, well developed essay.

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5. SAT High School Essay Writing

Grades: 9th-12th

Description: This essay course is designed so that future SAT essay takers reach their full potential. While learning the innerworkings of how to approach the SAT essay, students will also focus on how to enhance their current writing skills.

6. Effective Time Management

Grades: 6th-12th

This non-rigorous course is offered so that our students learn how to best make use of their time. As students enter higher grade levels they will encounter an increase in coursework and actively participate in extracurriculars, all while maintaining a social life. This class will introduce tools on how to implement methodical approaches to problem-solving, set goals, apply organizational techniques, and enhance verbal and written communication skills. These basic skills are necessary in approaching this pivotal stage in a student's life so thatthey make the proper choices to ensure both a healthy mindset and a successful future.

7. Language Tutoring

Grades: 6th-12th

Languages: Spanish, Mandarin

Our language courses are offered to students of all levels of proficiency either looking for an introduction to Spanish or Mandarin, or who simply need the extra help. Learning another language can be stressful, so our services are here to ensure a fun and positive learning environment for our students.

8. Introduction to Computer Science I

Grades: 7th- 12th

This basic introductory course is offered to help students understand the basics of computer science. Students will enjoy themselves in the small group size, while engaging in a fun workshop for what otherwise could be a difficult subject.

Week 1: Data Types, Variables, Logic, Loops + Quiz

Week 2: Arrays, Methods, Recursive Methods, Strings + Quiz → Project

Week 3: Project

Week 4: Usage of Java Libraries + Scanner, Array Lists

Week 5: Objects + Graphics, OOP, Project

Week 6: Applet, Project

Week 7: Review, Final Test

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8. Introduction to Computer Science II

Grades: 7th- 12th

This level two introductory course is offered to help students understand the basics of computer science. Students will enjoy themselves in the small group size, while engaging in a fun workshop for what otherwise could be a difficult subject.

Week 1- Week 3: Interphase, Polymorphism, Abstraction, Wrappers, Auto Boxing, Unboxing, Threads, Some Data Structures, Buttons, User Input.

Week 4: Project → Math GUI – Graphs

Week 5: Project → Binary Conversion, GUI

Week 6: GitHub, Packages

Week 7: Review + Test