The Capstone Math program is a merger of two important standards. The first is the Massachusetts Common Core standards for math, the highest performing state in the United States in student math performance. The second is the Capstone Core, a requirement within our Intellectual Development programs whereby students must develop greater critical thinking, flexible application of the academic content learnt, and strong presentation skills.

Students enrolled in our math program will not just know how to answer questions correctly when given the formula to plug in. Instead, our students will be able to identify the math problems rooted in more complex word problems and scenarios, know the steps to solve the different problems correctly, and then be able to present their solutions clearly. The combination of these attributes allows students to excel in school, math competitions and beyond.

What also makes the Math Masters program unique is the multiple pathways students can choose to pursue. Students can choose to focus on school success, competitions, advanced and college credit, or high level independent research.

The Standard program (levels 1 and 2, with 9 subject units) focus on success in school with the achievement level matched to math programs in top Asian international schools. The Advanced pathway (Level 3 with a variety of competition and advanced credit courses) gives students the opportunity to train and join math competitions, get credit in Advanced Placement (AP) and college-level mathematics and get a high score on the SAT Mathematics Subject Test. Finally, the Gifted program (level 4) finds private mentors to support mathematically gifted students on projects and research that will impress invitation-only summer camps and top universities.

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**PROGRAM ROADMAP**

### Standard (Level I & II)
- Calculus
- Functions II
- Functions I
- Algebra II
- Geometry
- Algebra I
- Number & Quantity II
- Number & Quantity I
- Number Exploration

### Advanced (Level III)
- AP Calculus BC
- Adv. Topics & Comp 3
- SAT Math 2
- Adv. Topics & Comp 2
- AP Statistics
- Adv. Topics & Comp 1

### Gifted (Level IV)
- In our Gifted program, students who graduated from our Advanced Programs can continue more in-depth mathematical pursuits.
- The topics, projects, and mentors are personalized for each student with a goal to produce work that will support their applications to elite math, computer science and other STEM programs at university and elsewhere while also giving them inspiration to continue pursuing mathematics.

#### Sample Topics
- Number Theory
- Linear Algebra
- Multivariable Calculus
- Discrete Mathematics
- Game Theory
- Differential Equations

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