



# AMSA

ADVANCED MATH & SCIENCE ACADEMY

INTEGRITY • EXCELLENCE • COMMUNITY

## *Soar With Us*



# Pursuit of Excellence

Every school has a story to tell. Ours begins and ends with academic excellence.

Since our founding in 2005, AMSA's mission has been to "create an atmosphere of celebration of knowledge where children of all backgrounds and abilities excel in all subjects, especially in math, science and technology, empowering them to succeed in the workplace in our modern high-tech world."

Today, AMSA is ranked the #2 public high school in Massachusetts (US News & World Report). Our students regularly excel on standardized and AP tests – not only in math and science, but also in humanities.

AMSA's curriculum challenges students to achieve their excellence. We introduce advanced subjects in the Lower School (grades 6-8), building a solid foundation for higher-level coursework in the Upper School (grades 9-12). Over 80% of graduating seniors take AP classes, choosing from 18 courses.

Every AMSA student receives comprehensive training in mathematical thinking and analysis - the foundation skills necessary for success in college/graduate learning as well as STEM and other careers. They learn not just what to think, but how to think, using critical thinking and problem-solving skills that are future-proof.

*“ We create an environment where it’s safe for students to make mistakes. We encourage risk-taking and creativity. Growth comes from struggle, mistakes, and challenges.”*

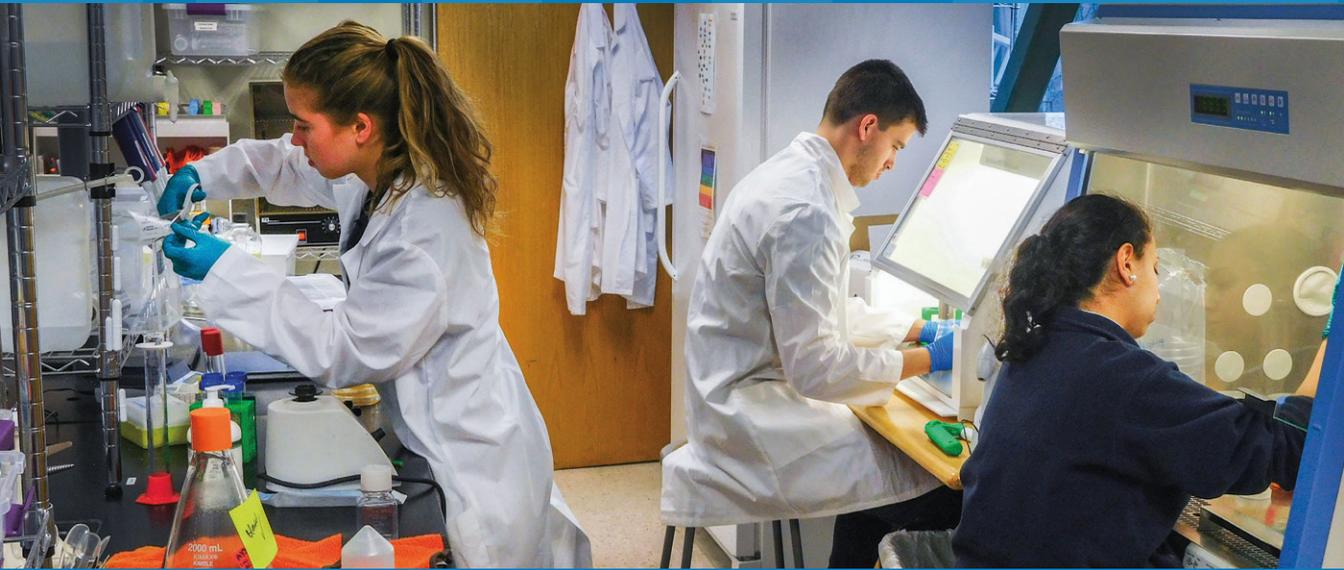
**DR. SCOTT JORAY,  
SCIENCE DEPT. CHAIR**

 [amsacs.org/curriculum](https://amsacs.org/curriculum)

*“Every student has the same opportunities here, and those opportunities are fantastic. We push our students to reach their full potentials.”*

**Nicole Abusamra,  
Biology Teacher**





**AMSA's flagship science research program** offers students the opportunity to conduct graduate school level research in the 10th-12th grades. Students conduct independent research in areas such as Molecular Biology, Geochemistry, Wildlife Management, and Engineering.

A new scanning electron microscope donated by Thermo Fisher Scientific is taking the science program to new heights. This unprecedented gift – the only electron microscope housed at a public high school in the U.S. – gives AMSA students unrivaled learning and research opportunities normally found only in college science labs.

## Instilling a Love For Learning

**AMSA's passionate, enthusiastic educators** come from all over the world, from both teaching and private sector backgrounds. They continually inspire our students, spark their creativity and passion for learning, and prepare them for life after AMSA.



[amsacs.org/staff](https://amsacs.org/staff)





### **Classrooms at AMSA are never dull!**

Students are continually challenged to learn more, do more, and experience more than they ever thought possible.

We give our teachers the freedom to innovate – and they take it from there. By adopting diverse teaching methods and introducing new ideas, they create learning environments that inspire the “Aha!” moments when a new concept becomes clear to a student.

Cross-disciplinary teaching links subjects such as history, language, art, math, and science to a common theme or time period. This approach puts ideas and subjects in context.

Collaborative projects between classes spark students’ curiosity and give them even deeper understanding of subjects.

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*“I like to open students’ potential and to see them discovering new things for the first time. It is a fascinating experience to witness these discoveries!”*

**LYUBOV SHMIDT, MATH DEPARTMENT CHAIR**

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# You're in the Right Place

**Our students come from many different places and backgrounds but have one thing in common – they are all Eagles!**

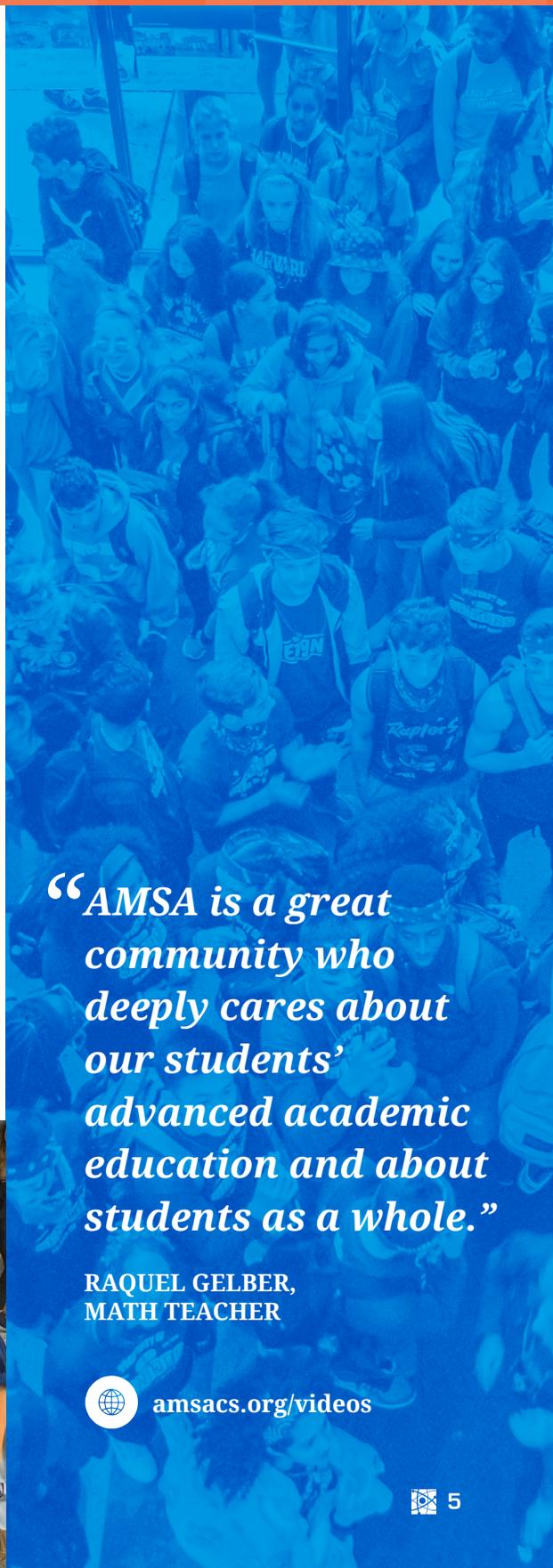
Small grade sizes foster camaraderie and friendships that last beyond graduation. Grade level gatherings and all-school celebrations give students a sense of belonging.

Developing outstanding character is as important as grades. Students are recognized for reflecting AMSA's Core Values of Integrity, Excellence, and Community. Eagle Awards are given to Lower School students who exemplify AMSA's culture of respect for oneself and for others.

AMSA has high expectations, but we provide a high level of support every step of the way. Faculty and counselors strive to help students achieve not only academic success but also social and emotional balance. AMSA's Student Services and ELL departments assist students to get the most out of their experience at AMSA.

Our vibrant PTO and Alumni organization keep AMSA spirit alive on and off campus.

We believe that if we care for all students and give them a rich and varied experience while here at AMSA, then they will grow into well-rounded young adults who are prepared to take on the world!



*“AMSA is a great community who deeply cares about our students’ advanced academic education and about students as a whole.”*

RAQUEL GELBER,  
MATH TEACHER



[amsacs.org/videos](https://amsacs.org/videos)

# Pushing the Education Boundaries

## Learning at AMSA is not confined to the classroom.

Ideas taught in class come to life on grade trips, field trips, and our growing roster of international trips. Closer to home, natural areas adjacent to campus are a living laboratory for classes to study biodiversity, sustainability, and different ecosystems.

More than 30 clubs and academic teams allow students to step outside their coursework and outside their comfort zones to explore diverse interests and talents, make new friends, learn to collaborate, and acquire leadership skills.

Students frequently participate in community service projects, contributing hundreds of hours of their time each year directly to non-profits and raising money for charitable causes.

AMSA is fortunate to reside in a high-tech corridor. Through our corporate partnership program, Upper School students have tremendous opportunities to engage with local scientists, engineers, and other professionals. Local companies provide summer internships to AMSA students, send guest speakers to classes, and offer mentoring and job shadowing opportunities.

AMSA's Athletics program promotes sportsmanship, citizenship, and high expectations to ensure that our student-athletes are successful on the field of play and off. We offer 40 different teams playing at Varsity, Junior Varsity, Freshman and Middle School levels. Our athletes learn leadership, teamwork, respect, dedication, and other traits that complement what they learn in the classroom.



[amsacs.org/athletics](https://amsacs.org/athletics)

*“All of our student-athletes represent our AMSA school community with class, competitiveness, camaraderie and with a championship spirit!”*

PETE JONES,  
ATHLETIC DIRECTOR





*Every student is held to a high standard, and they are accomplishing amazing things. There are so many opportunities here for the students that I haven't seen in any other school.”*

**EMYLIA TERRILL, ART TEACHER**

## Core Values



*AMSA's three core values are collective and individual values. Collectively, we take pride in our values and we promote them within and outside of our school. Individually, we hold ourselves responsible for embodying and reflecting these values each and every day.*

### **MODEL INTEGRITY**

At AMSA, we model integrity by being truthful in our work and caring in our relationships with people.

### **PURSUE YOUR EXCELLENCE**

At AMSA, we pursue excellence by embracing the joy of learning, by being curious, by working hard, by persevering in the face of obstacles, by embracing creativity and innovation, and by constantly striving to improve. At AMSA, we reach for the stars!

### **FOSTER COMMUNITY**

At AMSA, we foster community by being good citizens – by helping others, by appreciating and celebrating diversity, and by collaborating kindly and supportively.



## Learn More About **AMSA**

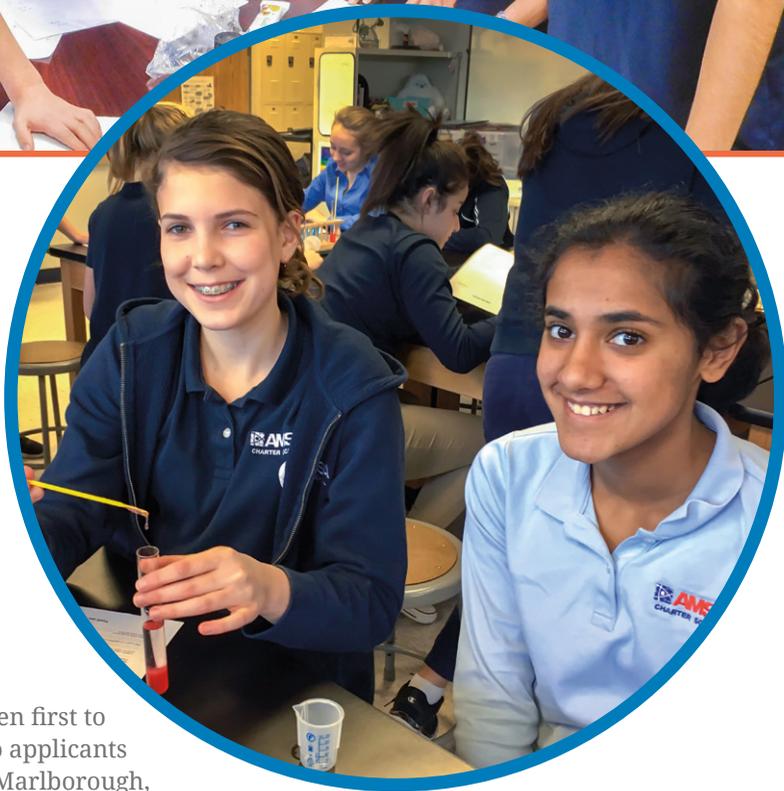
**The Admission process  
begins in October of the  
prior academic school year.**

Applications for the lottery are accepted for several months, followed by an anonymous lottery.

Seats are then offered on a space available basis with preference given first to siblings of current students, then to applicants from our four core charter towns: Marlborough, Hudson, Maynard and Clinton.

We hold several prospective parent information nights during the school year, both at AMSA and in the other three core towns. Tours of AMSA are offered on several dates during the fall and spring.

See [www.amsacs.org/admissions](http://www.amsacs.org/admissions) for specific dates.



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