

# Advanced Math and Science Academy

## Charter School Accountability Plan

<b>AMSA</b>			
<b>Type of Charter</b> (Commonwealth or Horace Mann)	<b>Commonwealth</b>	<b>Location</b>	<b>Marlborough, MA</b>
<b>Regional or Non-Regional?</b>	<b>Regional</b>	<b>Districts in Region</b> (if applicable)	<b>Marlborough, Hudson, Clinton and Maynard</b>
<b>Year Opened</b>	<b>2005</b>	<b>Year(s) Renewed</b> (if applicable)	<b>2010, 2015</b>
<b>Maximum Enrollment</b>	<b>966</b>	<b>Chartered Grade span</b>	<b>6-12</b>
<p><b>Mission Statement</b></p> <p>The Advanced Math and Science Academy Charter School will 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 of our modern high-tech world.</p>			

### Key Design Elements

- Celebrate academic knowledge and inspire an appreciation of learning and competency. (p. 20, charter application)
- Implement an educational model that is highly structured, and each year consists of continuous, logically organized, and interconnected multi-year courses (Executive Summary) in which teachers introduce, and build upon, fundamental concepts and theories in math, science, computer science, and the humanities preparing students for college and professional life. (p. 4, 5 charter application)
- Cultivate a generation of leaders, especially in math, science and technology that requires full commitment from the school to ensure that every student is challenged at the maximum of their ability and current intellectual preparedness with the goal of further advancing this “maximum” level. (p. 24, charter application)
- Promote personal responsibility and good character of students as a requirement for future career success. (p. 20, charter application)

**The charter school commits to meeting Criteria 1 through 10 as outlined in the Charter School Performance Criteria.**

Date of Preliminary ESE Approval	
Date of Board Approval:	
Date of ESE Approval:	

Objectives and Measures related to Mission and Key Design Elements:

<b>Objective: AMSA will celebrate knowledge and inspire an appreciation of learning and competency.</b>	
Measure: 98% of seniors will apply to a college or university and 100% of these students will be accepted to a college or university.	Kinds of data gathered/data collection plan: National Student Clearinghouse data (maintained by the Office of College and Career Readiness)
Measure: Upper School students will consistently demonstrate a high level of performance on the state standard for competency determination for graduation (currently MCAS). At least 98% of Upper School students will score at the Advanced/Proficient level in the ELA, Math and Science MCAS.	Kinds of data gathered/data collection plan: MCAS results, District Report Card
<b>Objective: AMSA's educational model will prepare students for college and professional life.</b>	
Measure: 83% of all students will take at least one Advanced Placement course between grades 9 and 12.	Kinds of data gathered/data collection plan: School Profile and data maintained by the College Board
Measure: Each year, 90% of the total number of Advanced Placement tests taken by AMSA students enrolled in the school's corresponding Advanced Placement courses will have a score of 3 or better.	Kinds of data gathered/data collection plan: Guidance Department, School Profile and data maintained by the College Board
Measure: 98% of all students in grades 9, 10 and 11 will take the PSAT. Students will improve their Critical Reading and Writing PSAT scores by an average of 10% from grade 9 to grade 11. Students will improve their Math PSAT scores by an average of 15% from grade 9 to grade 11.	Kinds of data gathered/data collection plan: Guidance Department, School Profile and data maintained by the College Board
Measure: 98% of all upper school students will take the SAT before January 1 <sup>st</sup> of their senior year. The SAT class mean will be no less than 15% higher than the state mean in Critical Reading, Writing and Math.	Kinds of data gathered/data collection plan: Guidance Department, School Profile and data maintained by the College Board

**Objective: AMSA will cultivate a generation of leaders, especially in math, science and technology, ensuring that every student is challenged at the maximum of their ability with the goal of further advancing their “maximum” level.**

<p>Measure: 100% of seniors with Educational Proficiency Plans (EPP) based on a less than proficient score on their 10<sup>th</sup> grade ELA and/or Math MCAS will achieve Proficiency/Competency Determination (CD) and graduate with their class.</p>	<p>Kinds of data gathered/data collection plan: MCAS scores, Guidance records, Certification of EPP Completion authorized by the Principal</p>
<p>Measure: To support opportunities for students to master the curriculum, 100% of all teachers will provide at least 45 minutes of extra help weekly. Students in grades 6 through 8 will be provided additional time for extra help during the daily Directed Study.</p>	<p>Kinds of data gathered/data collection plan: Portal Plus, school schedules, teacher contracts</p>

**Objective: AMSA will effectively promote student responsibility as a requirement for future career success.**

<p>Measure: Subject teachers will grade students quarterly on their character development in two categories: respect and responsibility. Categories will be ranked from 1 to 10, with 10 being the highest. When final grades are calculated in June, the student aggregate will average a 7 or greater in both categories.</p>	<p>Kinds of data gathered/data collection plan: Grades entered into Plus Portal, Rediker</p>
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Objective and Measures related to Dissemination:

<p><b>Objective: AMSA will share its curriculum and educational model with other schools in Massachusetts over the course of the charter term.</b></p>	
<p>Measure: AMSA will host an annual “Educators Exchange” for teachers and administrators from other Massachusetts schools, with the purpose of sharing AMSA’s curriculum and educational philosophy.</p>	<p>Kinds of data gathered/data collection plan: Invitation list, attendance rosters, event itinerary and participant feedback</p>