
AGENDA ITEM: Replication Application – Academy of Mathematics and Science, Inc.

**Academy of Mathematics and Science, Inc. – Academy of Mathematics and Science South
Replication Application Summary Report**

The Academy of Mathematics and Science, Inc., a non-profit entity, submitted a complete replication application for the 2011-2012 replication cycle. The Academy of Mathematics and Science, Inc. operates a K-12 charter school in Tucson, Academy of Math and Science (AMS). The charter representative, Tatyana Chayka, is also an officer and director for a replication charter, Math and Science Success Academy, Inc., with a school, Math and Science Success Academy (MASSA), also located in Tucson. The corporate entity seeks a charter to replicate Academy of Math and Science. The school will be named Academy of Mathematics and Science South and will be located in the 85713 zip code area of Tucson.

Replication Model – ACADEMY OF MATH AND SCIENCE

Academics:

Academy of Math and Science has experienced the following success as measured by the Arizona Department of Education’s achievement profiles (AZ LEARNS) and the requirements of No Child Left Behind (Adequate Yearly Progress):

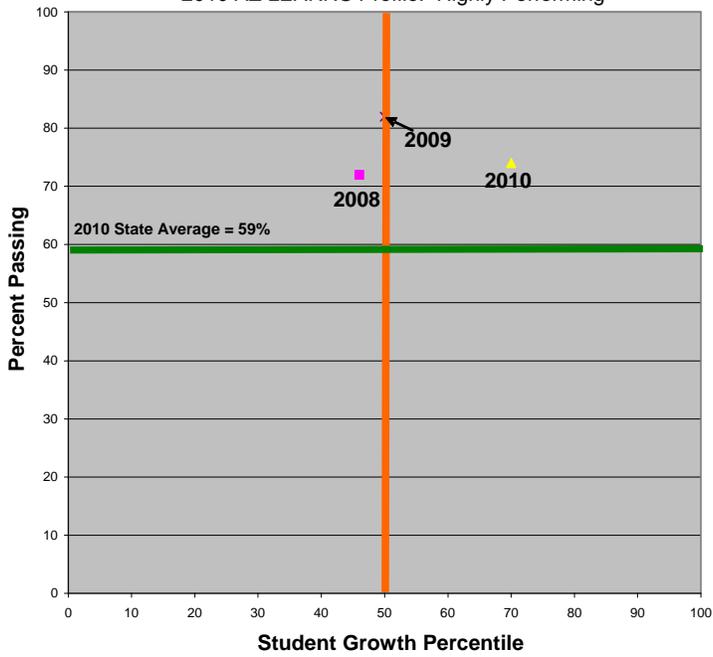
Academy of Math and Science

School Year	AZ LEARNS	Adequate Yearly Progress
2009-2010	Highly Performing	Met
2008-2009	Highly Performing	Met
2007-2008	Highly Performing	Met

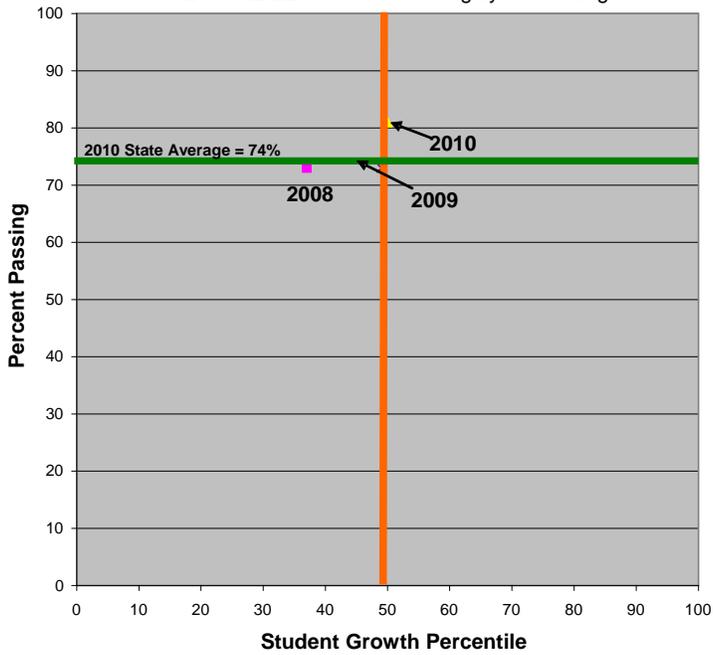
The school uses the following methods of instruction: cooperative/collaborative learning, discovery learning, the Socratic Method, Gagne's direct instruction, and project learning. The proposed school, Academy of Mathematics and Science South will also use increased instructional time, small group instruction, technology, as well as an interdisciplinary approach to instruction.

The Academy of Math and Science uses a variety of internal and external assessments to provide students, parents, teachers, and administrators with feedback on meeting content objectives. Internal assessments at AMS include NWEA (a nationally-normed assessment), teacher generated assessments including pre- and post-quizzes and tests, Study Island, DIBELS, publisher prepared student assessments, student portfolios, written and oral presentations, and collaborative assignments. External assessments at AMS include the Arizona Instrument to Measure Standards (AIMS) for grades 3-8 and 10, Stanford 10 for grades 2 and 9, and the Measure of Academic Progress (MAP). If a student fails to meet the criteria for mastery, remediation efforts are taken and an Individual Education Plan (IEP) is developed for that student. The administration uses professional development activities to provide teachers with research-based strategies and practices in tracking students' progress and trends in assessments.

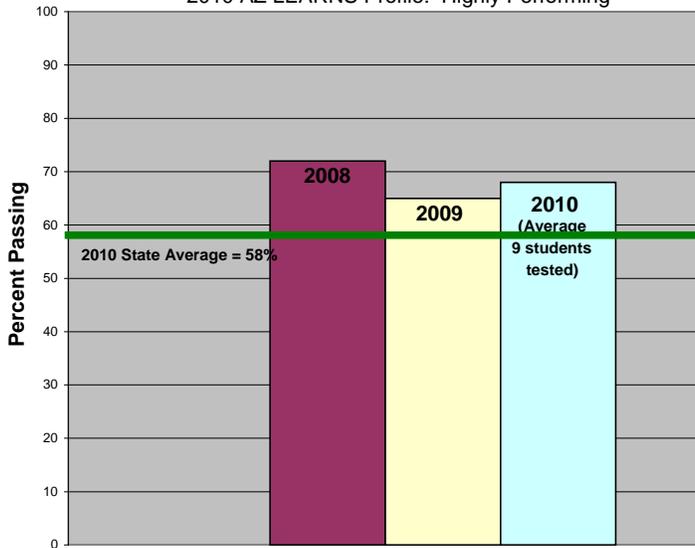
Academy of Math & Science #79094
Academic Achievement - AIMS ES Math
2010 AZ LEARNS Profile: Highly Performing



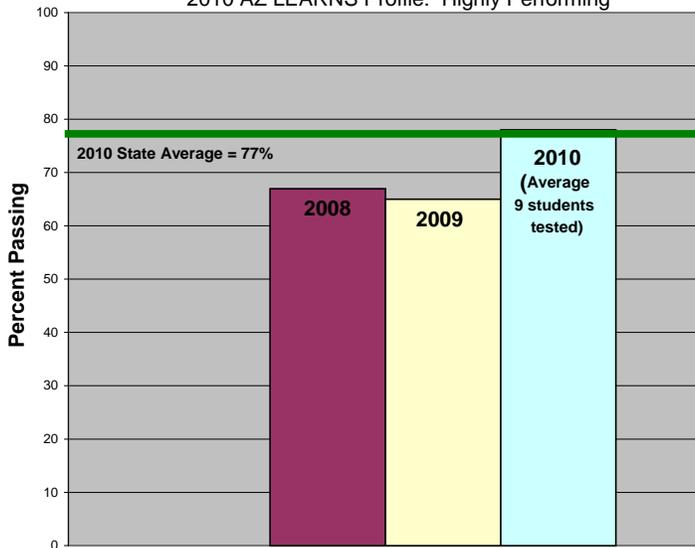
Academy of Math & Science #79094
Academic Achievement - AIMS ES Reading
2010 AZ LEARNS Profile: Highly Performing



Academy of Math & Science #79094
 Academic Achievement - AIMS HS Math
 2010 AZ LEARNS Profile: Highly Performing



Academy of Math & Science #79094
 Academic Achievement - AIMS HS Reading
 2010 AZ LEARNS Profile: Highly Performing



Replication School – ACADEMY OF MATHEMATICS AND SCIENCE SOUTH

School Mission Statement:

The Academy of Mathematics and Science South is a charter school which emphasizes math and science while providing a superior education in all other aspects of school curricula. AMS South students, equipped with strong foundations in math and science, are given the tools to excel and take advantage of opportunities in the world of tomorrow.

Market Analysis:

The Academy of Mathematics and Science South plans to locate in the 85713 zip code area of Tucson. This area was specifically selected based on students’ needs. The “need” of each zip code and probability of success of

AMS South’s instructional program with the targeted population was determined through a top down analysis of the total number of students “Falling Far Below” and “Approaching” standards on the AIMS test, demographics representing student risk factors, and the quality of existing charter schools available in the region.

Governance Structure:

The Academy of Mathematics and Science South Governing Board will be made up of 5 – 9 members representing the various duties of the school, including community members, parents, and AMS South faculty. As the capacity of the school expands within the community, additional board members will be identified. Presently, Tatyana Chayka serves as a corporate member and Kim Chayka serves as a member representing the staff, Maria Vasilieva serves as a parent representative, and Jill Rich, Serge Shayevich, and Noel Sherwin serve as community members.

	Academy of Math and Science	Academy of Mathematics and Science South
Instructional Program		
Grade Levels	K-12	K-12
Special Emphasis	Mathematics and Science	Mathematics and Science
Methodology	Data Driven Instruction	Data Driven Instruction
Demographics		
Location	1557 W. Prince Road Tucson, AZ 85705	Between Tucson Blvd. and Alvernon, and 22 nd and Ajo in Tucson, 85713
Enrollment	Up to 560 students	Up to 300 students
Ethnicity	White: 48.8% Hispanic/Latino: 40.1% Asian: 2.1% Black or African American: 6.2% American Indian/Alaska Native: 1.7% Native Hawaiian/Other Pacific Islander: .2%	White: 19.82% Hispanic or Latino(of any race): 62.1% Asian: .34% Black or African American: 2.35% American Indian/Alaska Native: 1.59% Native Hawaiian/Other Pacific Islander: .04% Some other race: 12.39%
Organizational Structure		
Authorized Representative(s)	Tatyana Chayka	Tatyana Chayka
Corporate Principals	Tatyana Chayka Marina Krymskaya Olga Boytsova	Tatyana Chayka
Governing Board	Tatyana Chayka Edward Chayka Jill Rich Catherine Borinstein Dr. Noel Sherwin	Tatyana Chayka Kim Chayka Maria Vasilieva Jill Rich Serge Shayevich Dr. Noel Sherwin

Suggested Motion: Accept the application package and grant the replication charter for Academy of Mathematics and Science South.