

# Alameda Science & Technology Institute



**Presentation to the Board of Education  
August 26, 2014**

# Vision

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## Vision Statement

To ensure ALL students, especially those who are underrepresented, are provided the resources to attain a college degree from the institution of their choice and become responsible, proactive, and empowered global citizens with a life-long love of learning.

# ASTI Students Collaborate to Complete Difficult Tasks



# 2013-14 in Review

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## ***Achievements***

- 100% CAHSEE pass rate
- U.S News Bronze
- CBEE STEM School

## ***Senior Outcomes***

- 40% of senior class earned an AA degree from COA
- 59% of senior class completed IGETC requirements
- Seniors earned an average of 58 college credits
- Seniors maintained an average college GPA of 3.29
- 31 of 44 seniors are attending 4-year colleges
- 8 of 44 seniors are attending 2-year colleges
- 1 senior enlisted in US Navy
- 2 seniors will study overseas (gap year in S. Africa followed by University of Exeter Cornwall Campus, and Tribhuvan University pre-med in Nepal)



# Members of Class of 2014



# **2013-14 Assessments in Transition**

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## ***CST: 10<sup>th</sup> Grade Life Science***

- 93% Proficient or Advanced; down 1 point from 2013 = 94%
- Well above 7 year average of 87%

## ***EAP: CSU Math & English Readiness***

- ELA: 7 out of 11 tested Ready or Conditionally Ready
- MATH: 26 out of 30 tested Ready or Conditionally Ready



# Members of Class of 2015



# Direction = Forward

- Aiming high: college-readiness focus
- Rigor of Curriculum
- Continuity of faculty
- Staff Collaboration
  - Define college readiness
  - Develop a teaching & assessment tool
  - Identify overlaps with Common Core



# Meeting Whole Student Needs

- ASTI Garden
  - Open air science classroom
  - Collaboration across disciplines
  - Global-Local awareness
- Math
  - Coordinated Seminar & Tutoring
- Support
  - Collaboration with Tri-High: Bridge Groups & whole class presentations

# Meeting Students' Needs: College Competitive

## Course Offerings

- Spanish 3 & Calculus increase college choice

## *Highlight on Extracurriculars*

### ASTI for Humanity

- Community Relations– Thanksgiving and Mother's Day Baskets for Women's Shelter
- Annual Pasta Feed-- \$500 to Typhoon Haiyan Habitat for Humanity

# Members of Class of 2016





# Focus on SAT Performance (Averages)

Test	Class of 2013	Class of 2014	Class of 2015
<b>10<sup>th</sup> Grade PSAT</b>	135	148.7	159.1
<b>11<sup>th</sup> Grade PSAT</b>	148.2	165.3 <b>N = 38</b>	168 <b>N = 38</b>
<b>11<sup>th</sup> Grade Full Course</b>		1655.2 <b>N = 21 (38)</b>	
<b>Highest 11<sup>th</sup> Grade SAT</b>	1570 <b>N = 27 (41)</b>	1702 <b>N = 28 (38)</b>	1712 <b>N = 30 (39)</b>
<b>Highest Overall SAT</b>	1605 <b>N = 34 (41)</b>	1730 <b>N = 37 (41)</b>	

# Preliminary Boot Camp Results

<b>Diagnostic 05/18/2013</b>	<b>Post 06/13/2013</b>	<b>Score Increase</b>	<b>% gain in score</b>
1515	1622.5	107.5	7.88%

# **Monday is the new SATurday**

## ***Focus on SAT Performance Continued***

### **Embedding SAT preparation throughout the curriculum (Work in progress)**

- Monday is the new SATurday: SAT I and SAT II
- Preparatory courses for 10, 11, 12 via partnership w/nonprofit
- Focused review in seminar courses (i.e. Etymology)
- SAT II preparation throughout core courses:
  - Biology
  - World History
  - US History
  - Algebra II/Pre-Calculus
- Goal: Test-ready by summer following completion of course



# Members of Class of 2017



## ***Collaboration with College of Alameda***

### **Aligning Expectations and Curriculum**

- Invitation of COA faculty to staff meetings
- Staff observations of COA courses in specific academic disciplines
- Attendance at conferences with COA staff
- Further revision of ASTI rubrics to reflect college expectations
- Ongoing modification to format of Junior/Senior seminar courses
- Counseling Connection
- Courses: LIS

# Summary

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## *2014-15: Moving Forward*

### **Major Goals**

- Engage in focused Common Core transition and implementation
- Improve alignment of assessments to COA expectations
- Improve SAT score averages on both SAT I and II – with added goal of encouraging ALL students to test in both SAT I and II
- Collaboratively develop our understanding and practice of formative assessment
- Build upon parent/guardian collaboration



# The End

