Arroyo Vista Charter, Chula Vista Learning Community Charter, Discovery Charter, Mae L. Feaster Charter and Mueller Charter Schools

Presentation to the Board of Education
February 12, 2020
## English Language Arts

<table>
<thead>
<tr>
<th></th>
<th>Declined Significantly by more than 15 points</th>
<th>Declined by 3 to 15 points</th>
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<tbody>
<tr>
<td>Very High</td>
<td>Arroyo Vista ALL</td>
<td>Discovery ALL</td>
<td>CVLCC ALL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+45 points or higher</td>
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<tr>
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<tr>
<td>+10 to +44.9 points</td>
<td>Arroyo Vista Discovery EL w/ RFEP</td>
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<tr>
<td>Medium</td>
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<tr>
<td>-5 to -70 points</td>
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<td>Very Low</td>
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<tr>
<td>-70.1 points or lower</td>
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## Mathematics

<table>
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<tr>
<td>Very High +35 points or higher</td>
<td>Arroyo Vista ALL</td>
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<tr>
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<tr>
<td>Medium -25 to less than 0 points</td>
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Cohort Success

UNIQUE, YET CONNECTED
Our schools are unique, however we still have commonalities as a charter cohort: LCAP, SEL, Innovative programs/opportunities/curriculum/ extra-curricular activities

WALKTHROUGHS & FEEDBACK
Walkthroughs and provide feedback to each site including middle & high school

GRADE LEVELS
Our cohort offers middle schools and high schools

EDUCATIONAL PROGRAMS
We have students who have gone through 8-12 years in our educational programs

FINANCES
Maintained a healthy fiscal budget, which keeps student needs at the forefront

COLLEGE CULTURE
Early exposure to college culture including field trips to college campuses, discussions, and dual enrollment opportunities
Cohort Challenges

MEETING A VARIETY OF NEEDS
Targeted instruction & targeted professional development for every teacher and staff member to meet the variety of needs
Clear View, Hazel Goes Cook, J. Calvin Lauderbach, Liberty, John J. Montgomery, Burton C. Tiffany, and Wolf Canyon Elementary Schools

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February 12, 2020
## English Language Arts

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Cohort Challenge
District Innovation Efforts
Why Career Development?

- **Parental influence, social background, and sense of identity** greatly impact the career expectations of today’s students.

- Children begin to foreclose on particular careers as early as 6 years old.

- To ensure diversity and to break gender stereotypes.

- Career expectations are often unrealistic, poorly informed, and don’t match the composition and demand of the workforce.
How We Do This Work

Watershed & Wildlife Protection

**Description:** A watershed is an area of land that drains rain water or snow into one location such as a stream, lake or wetland. These water bodies supply our drinking water, water for agriculture and manufacturing, offer opportunities for recreation, and provide habitats to numerous plants and animals.

**Problem:** A local water authority needs to create a new pipeline in order to transport water to their customers in a newly developed neighborhood. However, the path of this pipeline will need to go through an area of land that is the habitat that many local burrowing owls live in.

**Engineering Challenge:** Design and build a new habitat for the burrowing owls that would provide them with an elevated, open landscape that includes mounds, perches, and a tunneling system that would also help them to evade predators.
Where We Started

Qualcomm
thinkabit lab

Feaster Charter
STEM, VAPA, STEAM
Innovation Station

17,250 students
575 classes
60 careers
Public Safety

**Description:** The primary goal of a public safety department is to protect the public and keep them safe. Natural disasters are one of the greatest challenges that first responders (firefighters, paramedics, etc.) face. Two major concerns in San Diego County are wildfires and earthquakes.

**Problem 1:** At 3:17 PM, first responders received a 9-1-1 call reporting a fire on the hill above their house. The dispatcher notified the fire department and sent a fire engine and their team to try to put out the fire. However, by the time they arrived, the wildfire had already grown out of control. Not only are the houses around it in danger, the fire is now posing a risk to the firefighters trying to put it out.

**Engineering Challenge:** Design and build a device that would help firefighters contain wildfires and reduce the amount of risk to their lives.

**Problem 2:** A 6.9 magnitude earthquake has just occurred here in San Diego. Many trees have been knocked down and are blocking roads, which creates a major access problem for first responders. Electricity is out in most nearby areas with many live power lines down. There are also various gas leaks that have started. Many water lines have been broken as well.

**Engineering Challenge:** Design and build a device that would allow first responders to remotely rescue people that are in danger.
Energy Station

8,340 students

278 classes

43 careers
Energy Station

Solar

Description: Our environment is made up of all the living and nonliving things around us. It includes the surroundings and conditions that all people, animals, and plants live and operate in. However, human activity continues to negatively affect our environment. Two of the major concerns people have for our environment includes the amount of air and water pollution that continues to take place.

Problem 1: Air pollution causes damage to crops, animals, forests, and bodies of water. It also contributes to the depletion of the ozone layer, which protects the Earth from the sun's ultraviolet rays. Air pollution can also have many negative effects on people's health. Short-term health effects include eye, nose, and throat irritation, headaches, allergic reactions, and upper respiratory infections. Some long-term health effects are lung cancer, brain damage, liver damage, kidney damage, heart disease, and respiratory disease. One of the human activities that causes the greatest amount of air pollution is burning fossil fuels for energy and for our vehicles.

Engineering Challenge: Design and build a device that would help prevent and/or reduce the amount of air pollution that humans add to the environment.

Problem 2: Plastic is one of the greatest threats to our oceans. According to estimates, 12.7 million tons of plastic waste are washed into the ocean every year. This leads to amphibians, fish, and mammals ingesting much of this waste. Reports estimate that nearly 1 million seabirds and 100,000 marine mammals die from plastic ingestion every year. Some species are on the verge of extinction because of this.

Engineering Challenge: Design and build a device that would help eliminate plastic waste and other harmful items from the beaches and/or oceans.
Hydro Station

4,860 students
162 classes
42 careers

To explore, visit workforce.org/mynextmove
Hydro Station

Watershed & Wildlife Protection

Description: A watershed is an area of land that drains rainwater or snow into one location such as a stream, lake, or wetland. These water bodies supply our drinking water, water for agriculture and manufacturing, offer opportunities for recreation, and provide habitats to numerous plants and animals.

Problem: A local water authority needs to create a new pipeline in order to transport water to their customers in a newly developed neighborhood. However, the path of this pipeline will need to go through an area of land that is the habitat of many local burrowing owls live in.

Engineering Challenge: Design and build a new habitat for the burrowing owls that would provide them with an elevated, open landscape that includes mounds, perches, and a tunneling system that would also help them to evade predators.
Health Station

750 students

25 classes

28 careers
Health Station

Rate of Perceived Exertion

**Easy:** A level of exertion where your heart is beating normal.

**Light:** A level of exertion where your heart begins to beat faster than normal but does not get you tired or out of breath.

**Moderate:** A level of exertion where you feel warm and you are breathing hard, but you can continue the activity for a long period of time.

**Vigorous:** A level of exertion where you are sweating and huffing and puffing, but you can keep going.

**Hard:** A level of exertion where you’re sweating a lot and breathing is difficult, so you will need to stop soon.

#HStLearns  
@CV_HealthSt  
@CVESDPhyEd
What Students Are Saying

• 100% of student focus groups have expressed an interest in more field trips

• 92% of students found the RIASEC activities to be “somewhat or very helpful” in identifying their interests

• 89% of students say they are familiar with the educational requirements for the careers that they are interested in
Instructional Focus

• English Learner Supports

• Learning Intentions and Success Criteria

• Professional Learning Cycles
STEMWoW Summer Experiences

126 Title I Students

$300,000 NSF Grant

Math in Art at Chicano Park

Parent Engagement

Math Activity

UN SDGs

Industry, Innovation and Infrastructure
Makerspaces

School Makerspace Impact 8,382

6th Graders 3,966
5th Graders 3,869

Daly Academy 25
Discovery Charter 889
Eastlake 594
Feaster Charter 1,166
Finney 381
Loma Verde 552
Muraoka 842
Otay 549
Rice 634
Wolf Canyon 901
Heritage 792
Camarena 1,057

Energy Station
Hydro Station
Health Station
Innovation Station
Professional Development

Engineering Design Process (EDP)

Career Integration

Nepris
Awards

2016 - Pioneer Award
South County Economic Development Council

2017 - Inspire Award, Honorable Mention
Classroom of the Future Foundation

2018 - Achieve Award, Honorable Mention
Classroom of the Future Foundation

2018 Staff Member of the Year
San Diego County School Boards Association

2019 - Impact Award
Classroom of the Future Foundation

2019 - BlueTech Science Teaching Award
TMA BlueTech (formerly The Maritime Alliance)
Next Steps

• Teacher and Parent Surveys
• Professional Learning Cycles
• Port Station
• Virtual Reality
Virtual Reality

Civil Engineering Technician
Technology Accelerators in Chula Vista
## Highlights

<table>
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<tr>
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<tbody>
<tr>
<td>College and Career Readiness</td>
</tr>
<tr>
<td>Differentiation and Rigor</td>
</tr>
<tr>
<td>Curriculum Alignment</td>
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<tr>
<td>Flexibility</td>
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<td>Equity</td>
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Recommended Achieve3000 Usage

2-3 Activities per Week

75% or Higher on First Attempt

Before Reading Poll

Article

Activity

After Reading Poll

Thought Question

Five Step Literacy Routine
Before Reading Poll

For years, parents have worried about new technologies. First, parents worried about the radio. Would it hurt kids? They wondered the same about TV and the Internet. What do you think?

Parents worry too much about technology.

- Agree
- Disagree

Explain why you voted the way you did.

Maximum 600 characters

Sentence Frames

Before Poll

5-Step Lesson

NEWS/Technology

Before Smartphones

Parents worry about how much time children spend on their smartphones. But parents worrying about technology is...
NEW YORK, New York (Achieve3000, January 7, 2019). “Put your phone away!” Why do parents say that?

Kids spend hours each day on smartphones. They text. They watch videos. Some parents worry. Do children spend too much time on smartphones? Concerns like these aren’t new. Parents have worried about kids and technology for almost 100 years.

Too Much Radio!

In the 1920s and 1930s, the radio was new. It was an exciting technology. Kids sat by radios. They listened to stories. Parents worried. They wondered if children were spending too much time listening. Would radio interfere with other interests? Would kids stop practicing music and reading?

TV Takeover

In the 1950s, TV arrived. By 1965, TVs were in more than half of U.S. homes. Again, parents worried. Some TV shows had violence. What was it doing to children, they questioned?

Video Game Battle

By the early 1980s, video games arrived. Again, parents worried. Kids might become caught up in racking up points.

Hello, Internet

Then came the Internet. It linked people together. Now parents had new worries. They worried about stranger danger. They worried about cyberbullying.

Technology has changed. But one thing is the same. Parents still worry!

Information for this story came from AP.
Select the letter of the correct answer.

What is the main idea of this Article?

A. In the 1980s, parents worried about their kids playing video games.
B. Technology has changed over the years, but parents still worry about it.
C. The Internet can put kids in danger of cyberbullying.
D. By 1955, TVs were in more than half of U.S. homes.

Submit
After Reading Poll

Now that you have read the article, indicate whether you agree or disagree with this statement.

Parents worry too much about technology.

- Agree
- Disagree

Submit
Thought Question

Write a summary of the Article. A summary tells what the main idea of a story is. To write a summary you should:

STEP 1: Read the Article,
STEP 2a: Look back at each paragraph. Find the main idea of each paragraph.
STEP 2b: Take out any facts that are not needed.
STEP 2c: Put everything—in your own words—into a few sentences.
STEP 3: Read your summary again.
STEP 4: Check your work. Make any last changes to your summary.

Include in your Answer

Draft 1

Type your response here.

Finish Later  Submit
Achieve3000 in Spanish
Achieve3000 Implementation Manager Support

- 2nd Grade Teacher Support
- Educating and Modeling Instructional Resources
- Co-teaching and Observational Support
- Supporting teachers with data analysis to monitor student usage and performance
Achieve3000 Most Used Reports

**How Has My Lexile Performance Changed Over Time?**
- Monthly Lexile growth and completed activities

**How are my Students Spending their Time? How are my Students Performing on Reading Skills?**
- Review weekly for efficacy of A3K instruction and remediation needs

**Activity Completion Report**
- Completed lessons and 1<sup>st</sup>/2<sup>nd</sup> try scores
A Closer Look at Second Grade...

- 3,379 Students in Second Grade
- 2,968 88% of students doing 1-2 Activities per Week
- 2,740 92% of students scoring 75% or Higher on First Try
Onboarding for Second Graders

- Benchmark Advance and Adelante
- SIPPS
- Smarty Ants
- Alternative Reading Inventories
District LevelSet
College and Career Readiness Growth

Percentage of Students on Track for College and Career Readiness

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<tr>
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<th>16-17 PRE</th>
<th>16-17 INT</th>
<th>16-17 POST</th>
<th>17-18 PRE</th>
<th>17-18 INT</th>
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PRE: Pre-Intervention
INT: Intervention
POST: Post-Intervention
Achieve3000 and CAASPP ELA Data

Percentage of Students at College and Career Readiness and Proficient Level Set Post Test 75% or Higher

<table>
<thead>
<tr>
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<th>2017-18</th>
<th>2018-19</th>
<th>2019-20*</th>
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<td>50</td>
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<tr>
<td>75% or Higher</td>
<td>61</td>
<td>63</td>
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<td>CAASPP ELA</td>
<td>63</td>
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After School Usage of Achieve3000

Percentage of Students Logging in After School

- 2016-17: 88%
- 2017-18: 80%
- 2018-19: 82%
Return on Investment

Third Graders
- Consistently increasing in ELA achievement

94% of 17,499
- Actively use A3K

975,000
- Student Activities Completed

87%
- Score of 75% or Higher First Attempt

Funded by
- Restricted Lottery

Cost per Day
- $0.20
MOVING FORWARD
Achieve3000 Implementation in CVESD

Report to the Board of Education
February 12, 2020
Middle School Expansion
Report to the Board of Education

Francisco Escobedo, Ed.D.
Superintendent
February 12, 2020
### Number of Schools in California

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<td>K-5</td>
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<td>K-6</td>
<td>1,951</td>
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<td>K-8</td>
<td>917</td>
</tr>
<tr>
<td>7-8</td>
<td>332</td>
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Provided by CalEdFacts
Charter Middle School Configuration

**Arroyo Vista**
- Total Students: 171
- 7th Grade = 3
- 8th Grade = 3
- TOTAL = 6
- Located on campus in designated middle school area

**CVLCC**
- Total Students: 250
- 7th Grade = 5
- 8th Grade = 5
- TOTAL = 10
- Located on separate middle school campus near 3rd Avenue and G Street

**Discovery**
- Total Students: 107
- 7th Grade = 2
- 8th Grade = 2
- TOTAL = 4
- Located on campus in separate wing

**Feaster**
- Total Students: 193
- 7th Grade = 4
- 8th Grade = 4
- TOTAL = 8
- Located on campus in designated middle school area

**Mueller**
- Total Students: 196
- 7th Grade = 3
- 8th Grade = 3
- TOTAL = 6
- Located on campus
New Developments in southeast Chula Vista
Classroom Availability

4-5 Classrooms Available
- Allen/Daly
- Casillas
- EastLake
- Harborside
- Los Altos
- Montgomery
- Otay
- Valle Lindo

6-8 Classrooms Available
- Finney
- Juarez-Lincoln
- Lauderbach
- Muraoka
- Parkview
- Rohr