

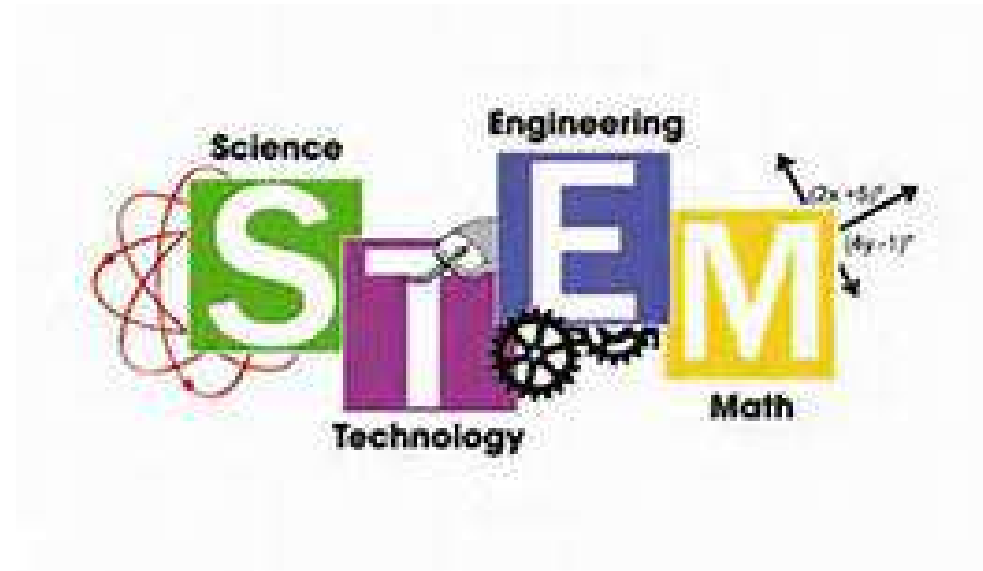


Intermediate Parent Information Night
November 16, 2016



What is STEM?

- Applied Science
- Utilizes and applies technology
- Engineering as a structured method of problem-solving
- Applying mathematics as part of engineering solutions



A Vision for Corona STEM Academy

01

To provide 7th – 12th
Corona students with a
foundation in ***engineering
and biomedical sciences***
(NGSS) providing them
the opportunity to enroll
and complete ***post
secondary education***
***leading to a high growth,
high wage STEM career.***



The Importance of STEM Education

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STEM fields are growing in
California

Between 2014 and 2024

STEM jobs will grow

18%

Non-STEM jobs will grow

14%

<http://vitalsigns.changetheequation.org>

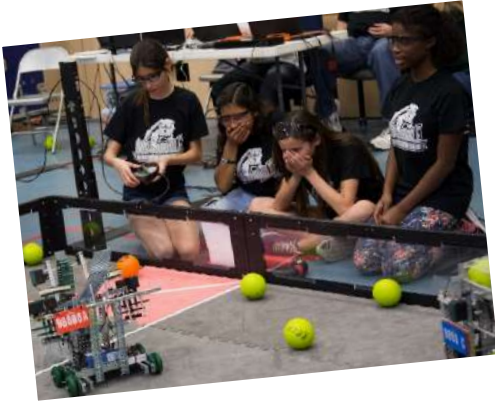
“The health and longevity of our Nation’s, citizenry, economy and environmental resources depend in large part on the acceleration of scientific and technological innovations, such as those that improve health care, inspire new industries, protect the environment, and safeguard us from harm. Maintaining America’s historical preeminence in the STEM fields will require a concerted and inclusive effort to ensure that the STEM workforce is equipped with the skills and training needed to excel in these fields.”

John P. Holdren,
Assistant to the President for Science and Technology; 2013

Intermediate Schools in Action

- Auburndale Intermediate School
- Raney Intermediate School

02

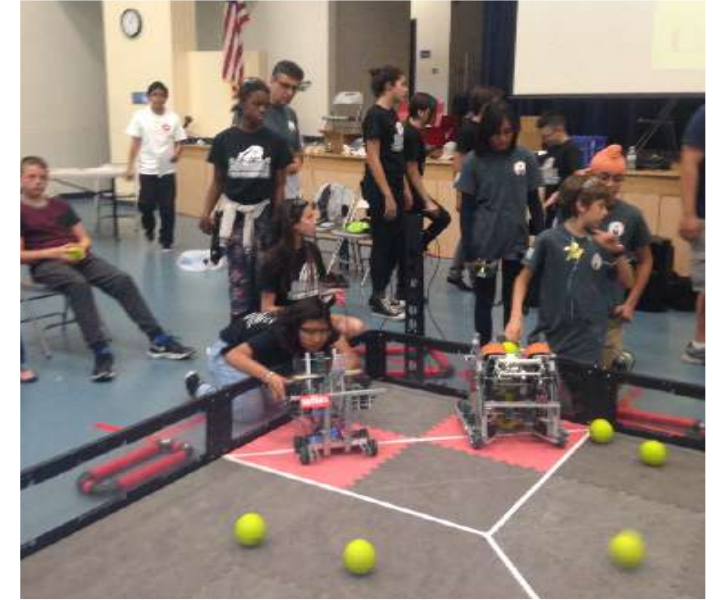


STEM is the Future - And CNUSD is Leading the Way



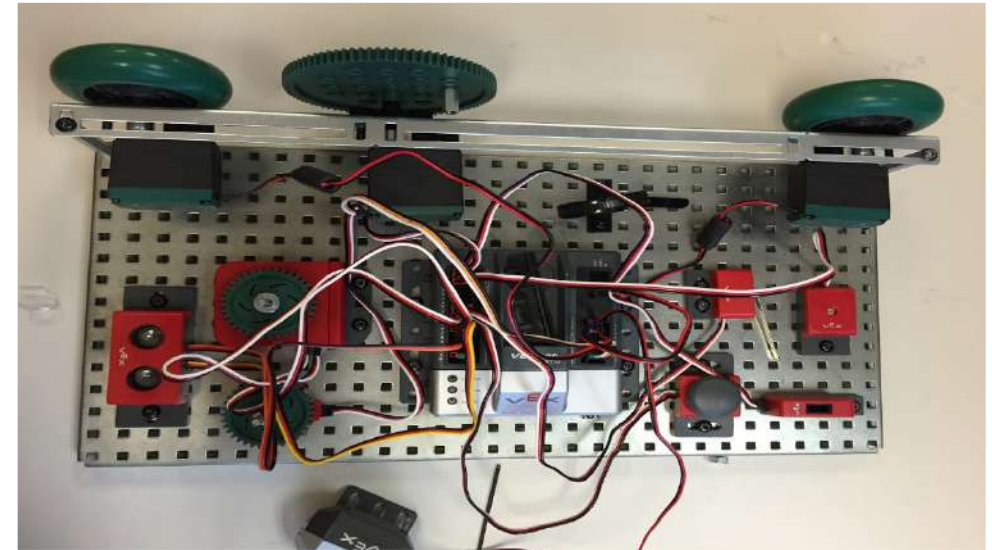
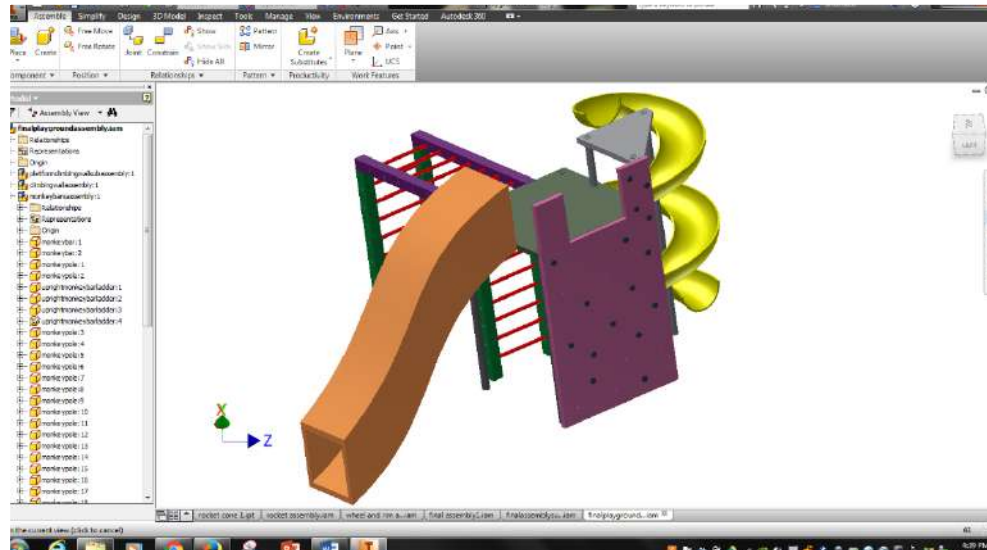
How do we break this cycle of generational poverty? "The staff at Auburndale, including our Principal Ben Sanchez, takes the job of giving students skills and abilities to break that cycle of generational poverty to the level of moral responsibility. In looking at ways to break this cycle, we chose to make STEM one of many foci for development."

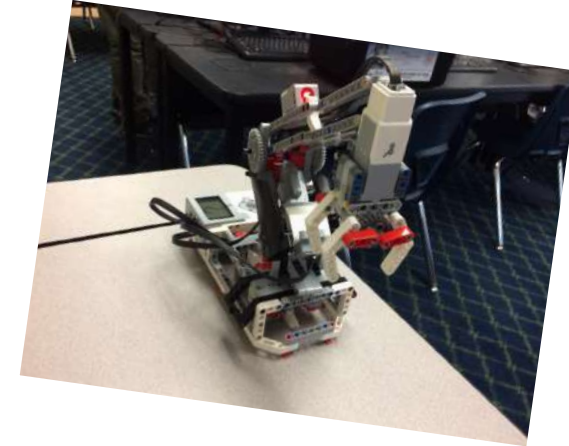
Tell us about some of the steps you have taken so far. "We have implemented the world-class curriculum developed by Project Lead the Way (www.pltw.org). In our Gateway to Technology program, we introduce students to the concepts and real practice in the design process, three-dimensional modeling using industry standard Autodesk Inventor, Robotics using VEX Robotics hardware and RobotC programming software, and an introduction to automation, manufacturing."



[http://mypub.iebjpub.com/publication/?i=275889&article_id=2293233&view=articleBrowser&ver=html5#{"issue_id":275889,"view":"articleBrowser","article_id":"2293233"}](http://mypub.iebjpub.com/publication/?i=275889&article_id=2293233&view=articleBrowser&ver=html5#{)











Course Progression



7th Grade

- MESA 1
- Computer Science 1

8th Grade

- MESA 2
- Computer Science 2

7th Grade

- Design and Modeling
- Automation and Robotics

8th Grade

- Medical Detectives
- Introduction to Computer Science



Coursework Alignment to Corona High School STEM Pathways

Engineering



Design & Modeling
Automation & Robotics



Biomedical Science

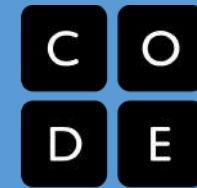
- HASPI science classes



- Medical Detectives



Computer Science



In Partnership
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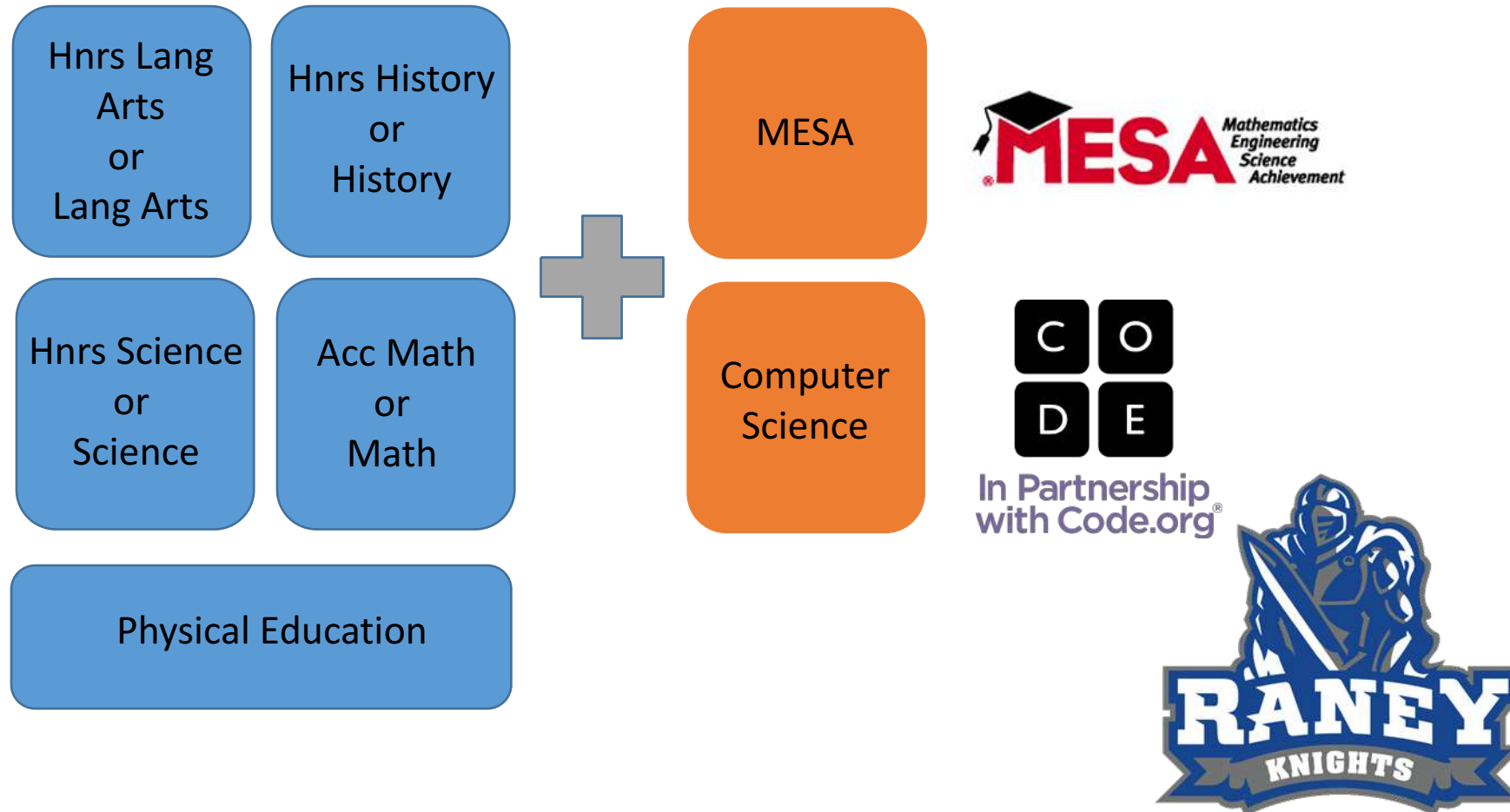
- Android Apps and Python



Raney Intermediate School STEM Schedule

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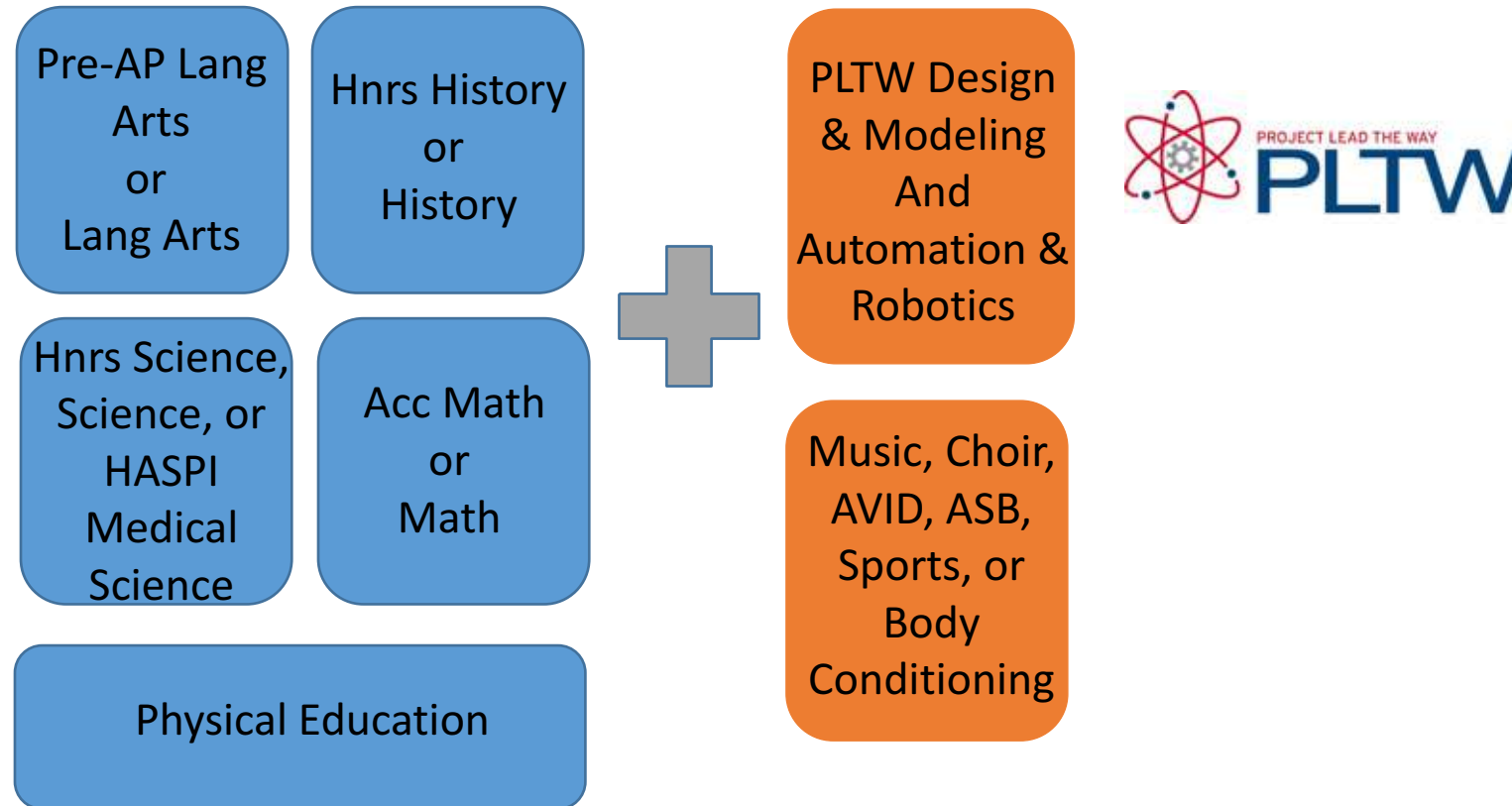
What a STEM Student schedule would look like at Raney



Auburndale Intermediate School STEM Schedule

02

What a 7th grade STEM Student schedule would look like at Auburndale



Why STEM?

- Diploma Seal
- Priority Enrollment at Certain Universities
- PLTW
- Active Participation in Community Advisory Committee
- Project-Based Application of Science and Engineering Standards
- Exposure to STEM career pathways
- Field Trips



Why STEM ?

- Problem-solving through problem and project-based learning
- Research suggests that students' attention to their studies changes once they are engaged in problem solving and learning for a real purpose other than finishing a course and earning a grade.
- Business and higher education partners

[Jill Berkowicz and Ann Myers; 2016](#)



Application and Deadlines

- STEM Application deadline December 18
 - Digital application available on school websites
- Applications available in front office of Raney Intermediate and Auburndale Intermediate
- Transfer window opens December 1st on district website:
www.cnusd.k12.ca.us

Apply now:



For continuing updates and to stay informed

Text the applicable code to 81010



@raneysystem



@stemais