LCAP Actions and Services Report #5

Stege Demographics

Unduplicated Student Count Percentage 95.9% **Unduplicated Student** Count Percentage the % of students who are: English Learners (EL), Low-Income (LI), and/or Foster Youth (FY). **347** Total Students Student Ethnicity African American 57% Asian 12% Filipino 1% Hispanic or Latino 24% White 5% 2 or More Races 0%

- 96% Free/Reduced Lunch
- 27% English Learners
- 14% Special Education
- 17 Teachers
 - 7 First Year Teachers
 - 12 Teachers New to Stege/WCCUSD

Demographics – Support Staff

Support Staff	2013-14 FTE	2014-15 FTE	Change
Resource Specialist	1	2	+1
Para-Professionals	1	2	+1
Psychologist	0.1	0.7	+0.6
Library Media Staff	0.2	0.2	0
Speech/Language Pathologist	0.6	0.6	0
School Community Worker	1	1.5	+0.5
Graduate Tutor	1	1	0
Contracted Services			
Counselor (Social/Behavioral)	1	1	0
Playworks Coach	1	1	0
Music Teaching Artist	0	0.4	+0.4
Mindfulness Teaching Artist	0.4	0.4	0

Stege 2014-15 Program Implementation Year 1

Year 1 – Academic Program

- * Extended Day 195 instructional minutes added per week (provided 116 hours of additional instruction)
- * Class Size Reduction Average class size is 23 students per class TK 6 (No combination classes)
- * East Bay Center for Performing Arts Music Program Weekly music lessons, choral and instrumental, every student, 45 minutes per week

Year 1 – Academic Intervention

Regular School Year Program

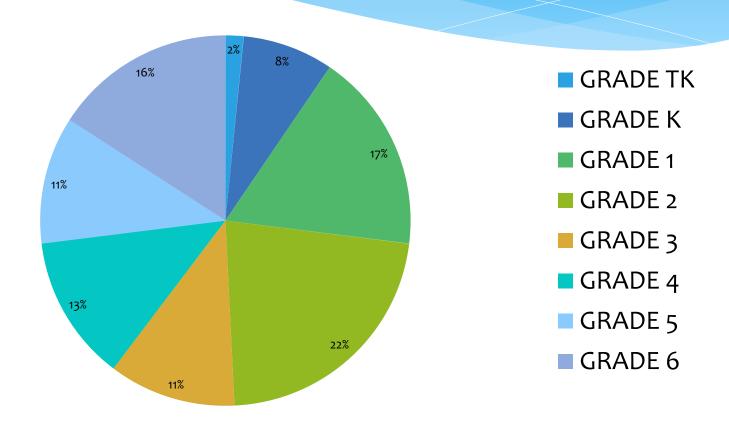
- * Tier 2 Daily Intervention RLA instructional blocking for all students **ExCEL Model: The Excellence-Commitment-and-Effective-Learning Program, 45 minutes of targeted RLA instruction**
- * Tier 3 Intervention Pilot Learning Center Model **Dual Learning Center: 2 Resource Specialists, 2 Para-Professionals served 63 students daily for small group intervention in RLA and Math**

Summer Intervention Program

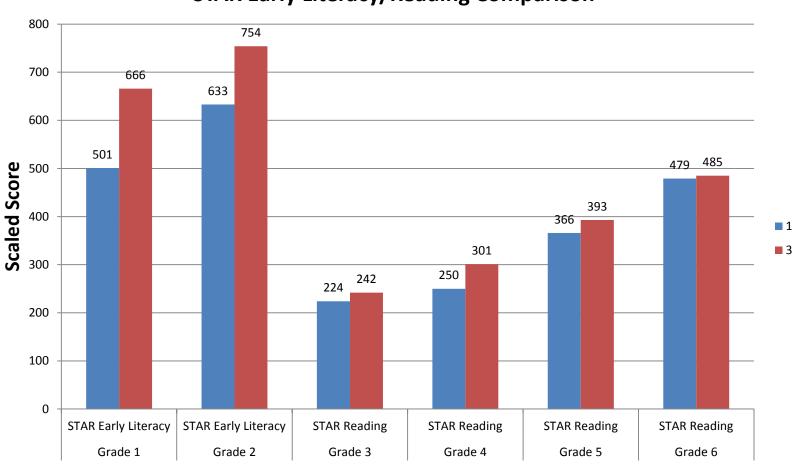
RLA Leveled Instruction, across grade levels, 4 teachers, 4 levels, 60 students, Technology Focus

Stege Elementary RLA 2014-15

63 STUDENTS DAILY



STAR Early Literacy/Reading Comparison



Year 1 – Social/Emotional Support Services

- * Increased FTE for School Psychologist
- BACR Counseling Services Increased caseload and student intervention support
- * Student support programs include Mindful Life, Tool Box Program, Playworks

Suspension Data 2014-15 Disruption on 3 Campus Harrassment Caused/Attempted 14 Injury Disruption, 24 Defiance Used Force or 33 Violence

10

20

30

40

0

Year 1 – Parental Involvement

- * Back-to-School BBQ in the Park
- * Family Learning Series Literacy Night, Family Reading Night, Family Science Night
- * CARE Team/ Student Success Team Meetings
- * Increased participation in SSC
- * Increase in number of school volunteers

Next Steps for 2015-16

2015-16 – Academic Program

- * Compartmentalized Teaching Collaborative teaching with RLA/Social Studies Block and Math/Science Block
- * Class Size Reduction No combination classes
- Extended Day Intervention Support for Targeted
 Students
- * Increased Site-Based Professional Development for Staff
- * Increased Use of Technology/Digital Learning Apple ConnectEd Grant
- * Continued Arts Enrichment with EBCPA

2015-16 – Social/Emotional Support Services

- * Restorative & Trauma Informed Practices
- * Continued Counseling Services with BACR
- * Increase Psychologist Intervention Support
- * Mindful Life and Tool Box Programs

2015-16 – Parental Involvement

Goal = To increase parent participation and community support by:

- Continuing the Family Learning Night Events
- * Hosting bi-monthly Outreach Events
- * Increasing home-school partnership for our targeted intervention students



STEGE STARS... RISING UP!

STUDIOUS

THOUGHTFUL

ACCOUNTABLE

RESPECTFUL

SAFE

QUESTIONS?

Science, Technology, Engineering and Mathematics (STEM):

The Emerging WCCUSD Model

Fab Lab @ Kennedy, Mobile Fab Lab, and Hybrid Fab Lab
STEM Community Centers
STEM-West CaMSP grant
Project Lead the Way (PLTW)

WCCUSD FAB LAB

- A Fab Lab is a fabrication laboratory internationally connected and developed in partnership with Chevron and MIT Center for Bits and Atoms
- Kennedy Fab Lab will serve K-12 and the community
- Hybrid Fab Lab at Crespi Middle School
- Mobile Fab Lab

Physically a Fab Lab is an advanced digital fabrication laboratory that consists of a suite of fabrication and rapid prototyping machines.

These machines include:

- a laser cutter
- a large CNC Router (Shopbot)
- a 3D printer and the accompanying computers and software
- a 3D desktop mill and scanner
- a vinyl cutter
- an electronics work bench

Laser Cutter





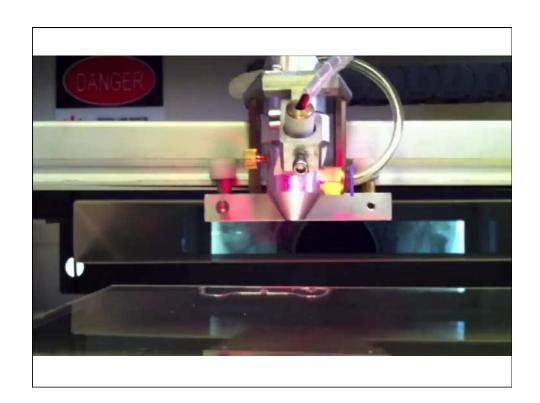
A Dinosaur Model



Wooden Hand Bowl

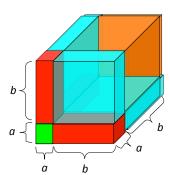


Graphic Art



Connecting Making to Content

$$(a+b)^{3}$$
= $(a+b)(a+b)(a+b)$
= $(a+b)(a^{2}+ab+ab+b^{2})$
= $(a+b)(a^{2}+2ab+b^{2})$
= $a^{3}+3a^{2}b+3ab^{2}+b^{3}$



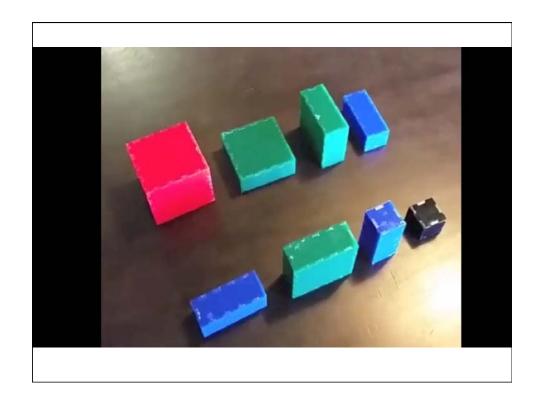
 a^3

 $+ 3a^2b$

 $+ 3ab^{2}$

 $+ b^3$

lip Gonsalves



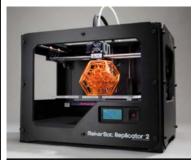
Large CNC Router (the Shopbot)



October 24, 2015 JFK Park Revitalization – Community Build Park Program



3-D Printers







Platonic Solids

3D desktop mill and scanner

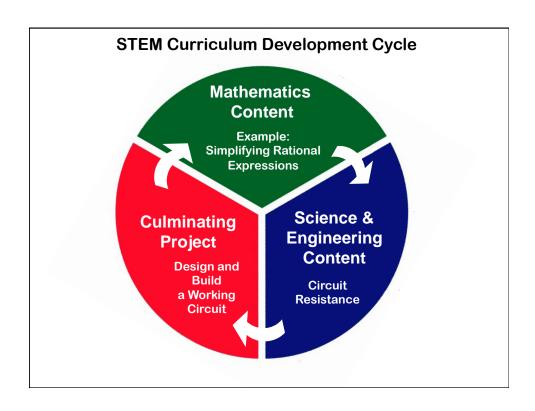






Boxes





Connecting Fractions and Rational Expressions: A Look Through the Grades

What "math" word do you see in "rational?" Waithematics

What does that word mean to you? [Elicit studen property and include a few examples.]

<u>Definition</u>: A ratio is a comparison of numbers by Example: ally expressed as $\frac{a}{b}$, where $b \neq 0$.

Simplifying Rational

(There are several ways to express ratios, when we **Expressions** in Algebra and beyond, we typically see them as quotients.)

<u>Definition:</u> A rational number is any number that may be expressed as $\frac{a}{b}$, where a and b are contained in the set of integers and $b \neq 0$.

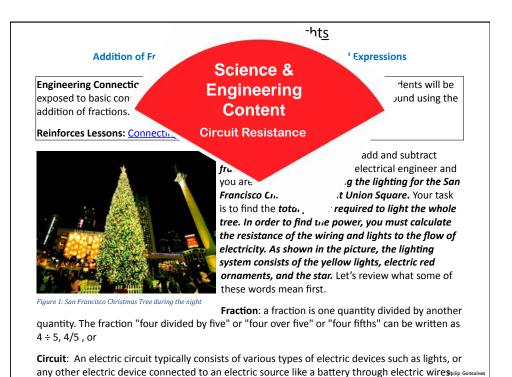
 When we do work with fractions, we are working with ratios. Thinking about how we work with fractions will assist us in thinking about and working with rational expressions.

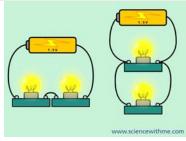
Opening for discussion:

What types of operations are we asked to do with fractions? How do you know what to do? When? Why?

- · Have students generate different examples of problems and tell you how to do them.
- · Allow for students to list/explain multiple methods.
- · Note that the list shown below is not an exhaustive list of methods but simply a sample of responses.

Visual (example)	Operation	How to approach:
8	Simplify	Prime Factor and find equivalent
12	(Numerator and Denominator must be	forms of one.
12	relatively prime, only common factor is 1)	Divide out common factors.
7 / 3/8\	Multiplication	Multiply across prime factor and





There are two types of electric circuits: parallel and in-series. A parallel circuit is when devices are connected parallel to each other and the inseries circuit is when devices are connected in series. The picture on the left shows two bulbs connected to a battery in series and the second shows the same lights connected in parallel. Inseries circuits the resistance to the flow of electricity is equal to the resistance created by wiring and all the lights and other devices connected to it.

Figure 2: Left-In-Series Circuit. Right-Parallel Circuit

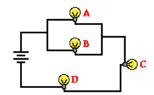
When devices are connected in-series the formula for total resistance is as follows

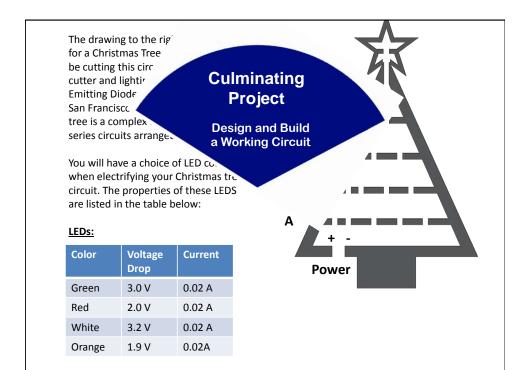
$$Rtotal = R1 + R2 + R3 + \cdots.$$

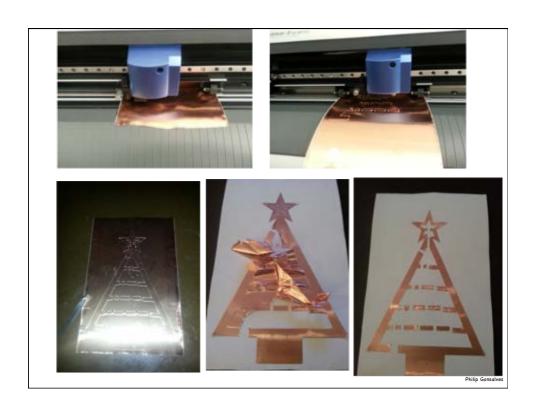
When devices are connected in parallel the formula for total resistance is as follows

$$\frac{1}{Rtotal} = \frac{1}{R1} + \frac{1}{R2} + \frac{1}{R3} + \cdots$$

The San Francisco Christmas tree lighting is an example of a complex circuit that combines both parallel and in-series circuits. The light bulbs in each section are connected in series and then the sections are connected in parallel similar to the picture to the right. Therefore for the Christmas tree example, assume the lights in each color are





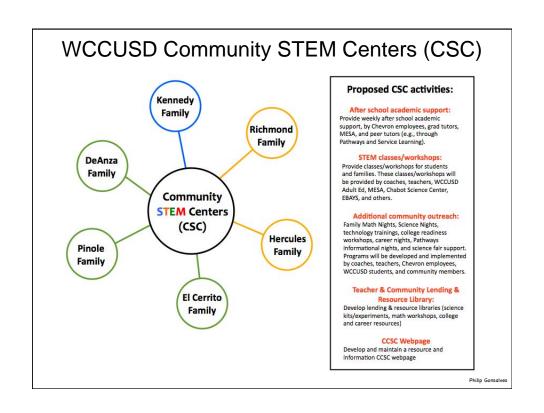


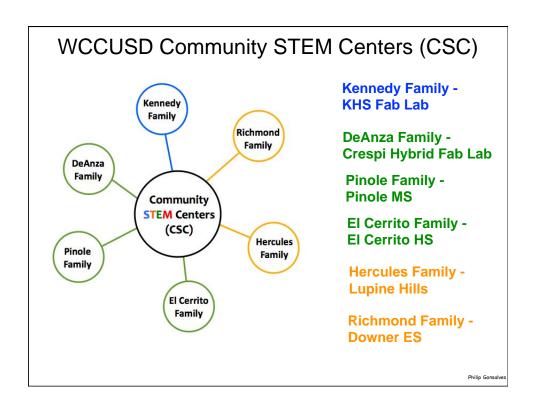


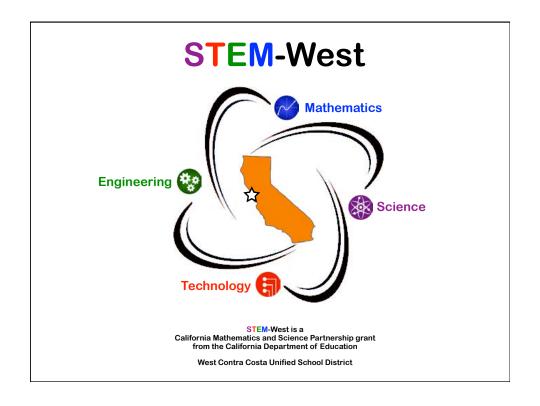


Other Curriculum in Development Mathematics **Science & Engineering Content Culminating Activity** Content Building Transamerica Building a scale Rational in S.F. - Wind Force, model Expresions Dead Load, Safety Factor for wind testing Building a prototype Arithmetic **Ergonomics** Sequences **Building Robots** Graphing Linear Operations Research, Linear Programing, & Systems of Inequalities and Robotics









Project Lead The Way

Project Lead The Way provides a comprehensive approach to STEM Education. Through activity-based, project-based, and problem-based curriculum, PLTW gives students a chance to apply what they know, identify problems, find unique solutions, and lead their own learning.

High School Programs:

Biomedical Science Engineering

Middle School Program:

Gateway to Technology

WCCUSD is leading the way for STEM in K-12

Participated on the White House Panel Discussion: Connecting "Making" to Education

