



# Spare the Air Youth

TECHNICAL ADVISORY MEETING  
OCTOBER 16, 2019



*Spare the Air Youth  
is a Climate  
Initiatives Program*





# AGENDA

1. Welcome and Introductions
2. Policy and Funding Updates
3. YES Conference Update
4. Part I: Integrating SRTS Curriculum into the School Day
5. Facilitated Walk & Talks
6. Lunch
7. 19-22 High School Grant Proposal
8. Part II: Integrating SRTS Curriculum into the School Day



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is a Climate  
Initiatives Program*



# POLICY AND FUNDING UPDATES



- MTC Updates  
Rebecca Long, MTC



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# 2020 YES CONFERENCE

YOUTH FOR THE ENVIRONMENT & SUSTAINABILITY



*Spare the Air Youth  
is a Climate  
Initiatives Program*



# YES Conference 2020



The poster for the YES Conference 2020 features a blue and green color scheme. At the top, the word "YES" is written in large, stylized letters, with icons of a bicycle, a person, and a leaf integrated into the letters. To the right of "YES" is the text "Youth for the Environment & Sustainability". Below this, the word "CONFERENCE" is written in large, white, bold letters on a dark blue background. Underneath, the date and time "SATURDAY, MARCH 28, 2020, 9AM-3PM" are listed in blue. The location "El Camino High School, 1320 Mission Rd. South San Francisco (across from SSF BART station)" is written in black. A green banner contains the registration information: "Registration, call for speakers, information at sparetheair.org". The central image shows two stylized human figures holding a globe that is cracked down the middle. Below this, a dark blue banner reads "Join us! Take action for OUR future". At the bottom, there are four bullet points: "Share ideas, solutions and projects", "Organize for climate action!", "Enjoy free food and giveaways", and "Make new friends & have fun!". The footer contains a disclaimer, a list of participating Bay Area counties (Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma), and logos for the Bay Area Air Quality Management District, Spare the Air Youth Program, and the Metropolitan Transportation Commission.

**YES** Youth for the Environment & Sustainability

**CONFERENCE**

**SATURDAY, MARCH 28, 2020, 9AM-3PM**

El Camino High School, 1320 Mission Rd.  
South San Francisco (across from SSF BART station)

Registration, call for speakers, information at  
[sparetheair.org](http://sparetheair.org)

**Join us! Take action for OUR future**

- Share ideas, solutions and projects
- Organize for climate action!
- Enjoy free food and giveaways
- Make new friends & have fun!

The Conference is open to middle school and high school students from the nine Bay Area counties  
Alameda · Contra Costa · Marin · Napa · San Francisco · San Mateo · Santa Clara · Solano · Sonoma

This is a free event. Students are required to have their parents' permission to attend. The YES Conference is sponsored by the Bay Area Air Quality Management District and the Metropolitan Transportation Commission. The Spare the Air Youth Program is a joint-program of the Air District and MTC.

Bay Area Air Quality Management District | spare the air Youth Program | Metropolitan Transportation Commission

- **Date:** Saturday, March 28, 2020  
9 a.m. – 3 p.m.
- **Location:** El Camino High School  
South San Francisco
- Shuttle service provided to areas of region without easy access to BART
  - North Bay
  - East Bay
  - South Bay
  - Mid Bay
  - Group of 30+ can request own shuttle
    - Deadline: January 10, 2020

# Registration

- Visit <http://www.sparetheairyouth.org>
- Download waiver for signature
- Click “Register now!”
- Register for the conference
- Upload signed waiver
- That’s it!
  
- Conference App to come in January 2020 for session sign-ups



# Call for Proposals

- Visit <http://www.sparetheairyouth.org>
- Click “Submit a YES Conference Proposal here!”
- Complete the form
  - Provide contact information
  - Describe self
  - Provide information on project
- Submit proposals by **December 13, 2019**



# 2020 \*Draft\* Agenda



- 9 a.m. – Registration/Breakfast
- 10 a.m. – Welcome & keynote
- 10:45 a.m. – Session 1
- 11:30 a.m. – Lunch
- 12:30 p.m. – Activities/Networking
- 1:00 p.m. – Session 2
- 2:00 p.m. – **Keynote Speakers**
- 2:30 p.m. – Raffle/Closing
- 3:00 p.m. – Conference ends



## Questions?

Contact Kristina Chu or  
Christine Nguyen

[kchu@baaqmd.gov](mailto:kchu@baaqmd.gov) or  
[cqnguyen@baaqmd.gov](mailto:cqnguyen@baaqmd.gov)



# PART I: INTEGRATING SRTS CURRICULUM INTO THE SCHOOL DAY



*Spare the Air Youth  
is a Climate  
Initiatives Program*



# Safe Routes to School, Environmental Literacy and In-class Curriculum

Vanessa Castro, San Mateo County Office of  
Education



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# Safe Routes to School for Health and Wellness

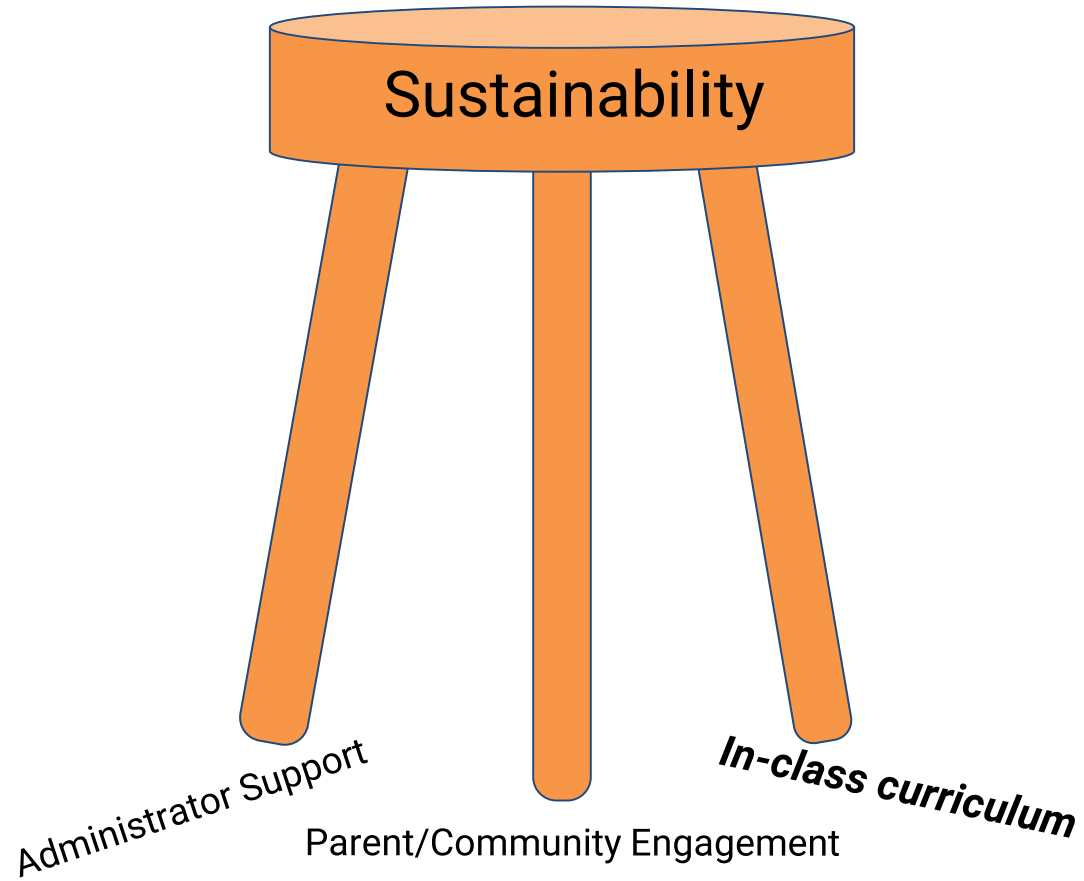


San Mateo County  
**SAFE ROUTES TO SCHOOL**

Healthy Kids • Green Communities • Safe Journeys

## STEAMCENTRIC





# The Brainstorm



# The Early Stages

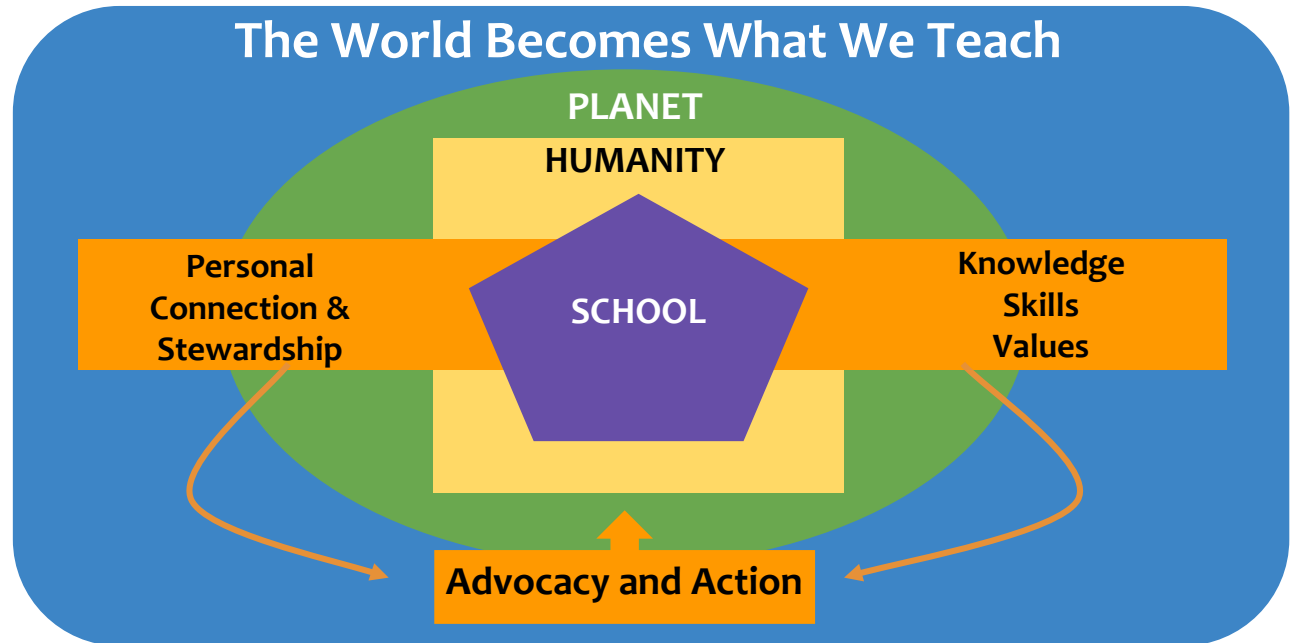
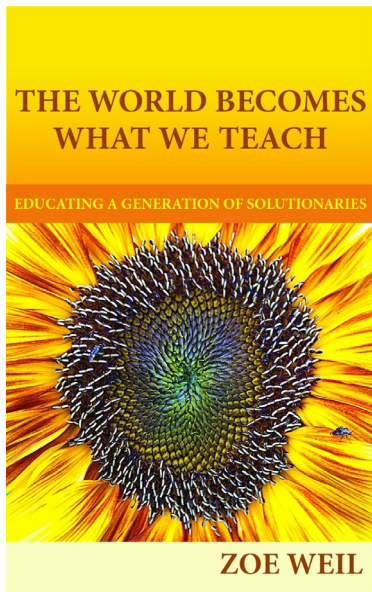
- ATP Task Force
- Next Generation Science Standards (NGSS) rollout
- Science Technology Engineering Art Math (STEAM) Center Collaboration
  - Environmental literacy/science focus

# The Approach/Understanding





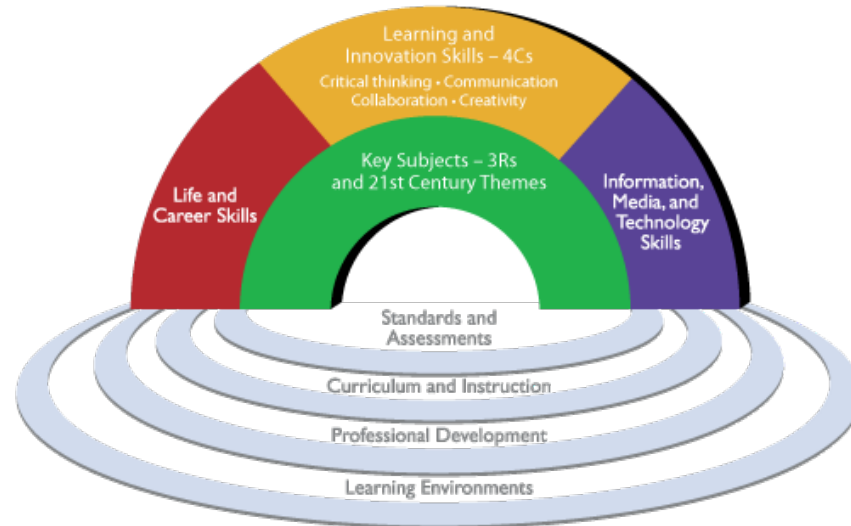
# Educational Philosophy



# 21st Century Learning



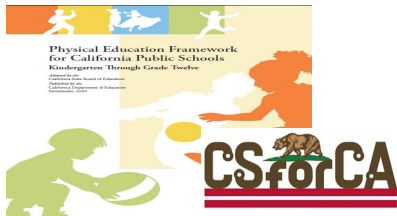
**P21 Framework for 21st Century Learning**  
21st Century Student Outcomes and Support Systems



# Educational Philosophy

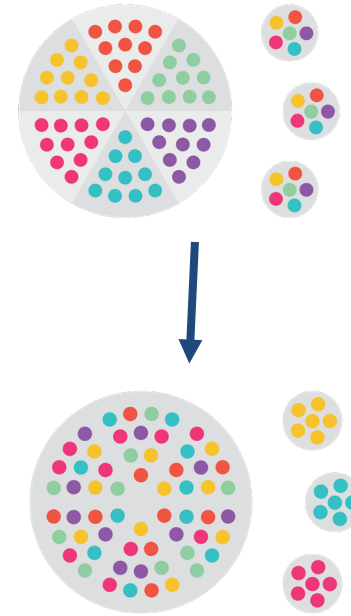


National Coalition for **CORE ARTS** Standards



**CSforCA**

## CONCEPT



*From  
Isolation*

*To  
Integration*

# The Curriculum



# Getting Teacher Buy In

- Making it relevant to their needs and frameworks that teachers want/need to implement
  - \$\$\$

# SRTS Curriculum Pilot Overview

## Components of SRTS Curriculum Pilot Program

Summer  
Training  
2 Days  
Aug 2019

Curriculum  
Implementation  
by Spring 2020  
*Individual Check-In*

Final Reflection  
and Survey  
Webinar - Feb 2020  
Survey - May 2020

### Registration for Continuing Education Courses (CEU\*) (Please Print)

Name: \_\_\_\_\_  
First Middle Last  
Address: \_\_\_\_\_  
Street City/State Zip  
Email Address : \_\_\_\_\_ @ \_\_\_\_\_  
Home Phone: \_\_\_\_\_ Work Phone: \_\_\_\_\_



**2 CEUs**

**W-9**  
Request for Taxpayer  
Identification Number and Certification

Form 990-SS (2018)  
Department of the Treasury  
Internal Revenue Service

Give Form to the  
requester. Do not  
send to the IRS.

1 Name (see instructions for rules). Name is required on this line; do not leave this line blank.

2 Business name (if different than above)

3 Check appropriate box for federal tax classification; check only one of the following when boxes are checked:  Sole proprietor or  Disregarded entity  Partnership  Trust/estate  Limited liability company (LLC)  S corporation  C corporation  Nonresident alien partner  Other (specify in other box)  Other (specify in other box)

4 City, state, and ZIP code

5 Taxpayer Identification Number (TIN)

6 Social Security number

7 Employer identification number

**\$500  
Stipend**

# Promotion and Attendees

## *Register to Participate!*

### Resilient Neighborhoods: Safe Routes to School Curriculum

Today, only 13% of children walk or bike to school. How can educators address environmental and social issues impacting our schools *and* promote sustainable transportation in our communities?

At this two-day workshop you will learn how the Safe Routes to School Resilient Neighborhoods unit can take your students outdoors, provide opportunities to build 21<sup>st</sup> Century Skills through PBL, and learn environmental literacy principles.

- Receive tools and resources necessary to implement the unit (NGSS, History/Social Studies, Health and Common Core standards-aligned)
- Provide students a memorable classroom experience
- Inspire students to combat climate change and social justice problems



**Aug. 5-6, 2019**

**9:00 AM to 4:00 PM**

Breakfast and lunch provided.

**TEACHERS...**


**\$500 Stipend for implementing the unit in the 2019-20 school year\***

Register at:

<https://srts-resilient-neighborhoods-pd.eventbrite.com>

\*For more information, contact us at:  
(650) 598-2184, [vcastro@smcoe.org](mailto:vcastro@smcoe.org)



**SAN MATEO  
COUNTY  
OFFICE OF  
EDUCATION**  
101 Twin Dolphin Drive  
Redwood City, CA 94065



- 29 teachers
- 15 districts

# SRTS Curriculum Pilot Website



The screenshot shows the top of a website. At the top left is a small logo for the San Mateo County Office of Education (SMCOE) and the text "Safe Routes to School K-5 Curriculum Pi...". To the right are navigation links: "Home", "Summer Institute", "Learning Segments", and "General Resources". Below the navigation is a large banner image showing the lower legs and feet of several people walking on a paved path. Overlaid on the image is the text "Safe Routes to School", "K-5 Curriculum Pilot Training", and "2019-2020". Below the image is a purple section with white text. The text describes walking or rolling to school as the healthiest modes of transportation and explains that the curriculum is standards-aligned and integrated across content areas, designed by the SMCOE STEAM Center Team in partnership with the SMCOE Safe Routes to Schools program.

Safe Routes to School  
K-5 Curriculum Pilot Training  
2019-2020

Walking or rolling to school are the healthiest modes of transportation for people and the planet. To reach this conclusion, students learn about the risks and benefits of various types of transportation, the infrastructural features and challenges of their neighborhood and community, and methods to implement solutions to foster a healthy and safe lifestyle.

This K-5 curriculum is standards-aligned and integrated across content areas. It was designed by the San Mateo County Office of Education (SMCOE) STEAM Center Team in partnership with the SMCOE Safe Routes to Schools program. It is our hope that teachers will deliver this curriculum to encourage students to choose modes of transportation that are healthy for people and the planet, and to take action in their communities to create solutions to ensure safe routes to and from school.

0



SMCOE Safe Routes to School K-5 Pilot Curriculum Scope

**Visit: [tinyurl.com/SMCOE-SRTS-K5CurriculumPilot](https://tinyurl.com/SMCOE-SRTS-K5CurriculumPilot)**



# Essential Question (EQ)

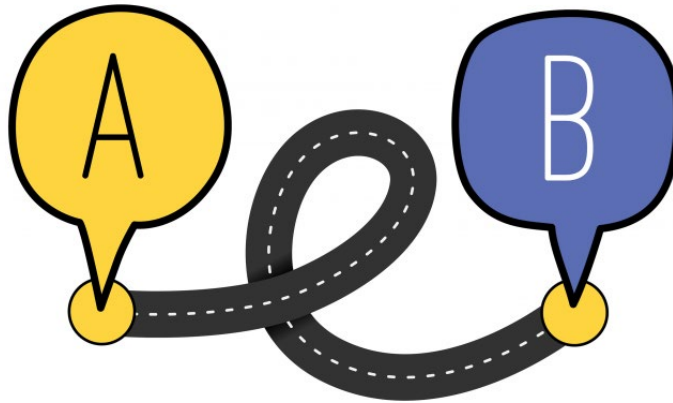
How can learning more about modes of transportation to and from school, and our neighborhoods, keep us and the planet safe and healthy?

# **Enduring Understanding (EU)**





**What is your enduring understanding of the importance of Safe Routes to School?**


# Unit Orientation

Define the Term “Transportation”

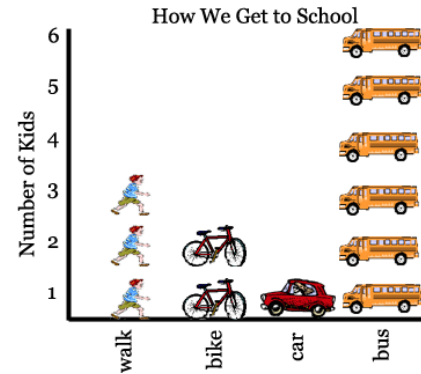


# How did you get to school today?

How did you get to school today?			
			
Rode on the bus.	Walked to school.	Drove to school.	Rode my bike.

 How did you get to school today?  
Name \_\_\_\_\_ Date \_\_\_\_\_

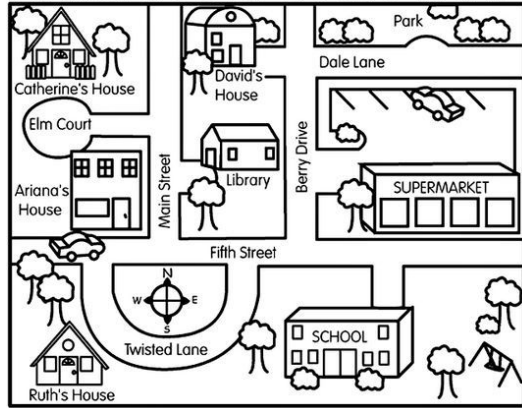
I came to school \_\_\_\_\_



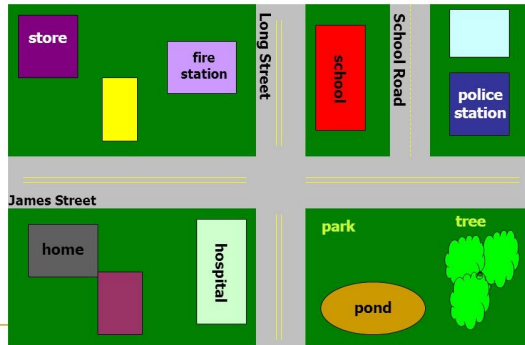


Which modes of transportation are the most healthy for people and the planet?

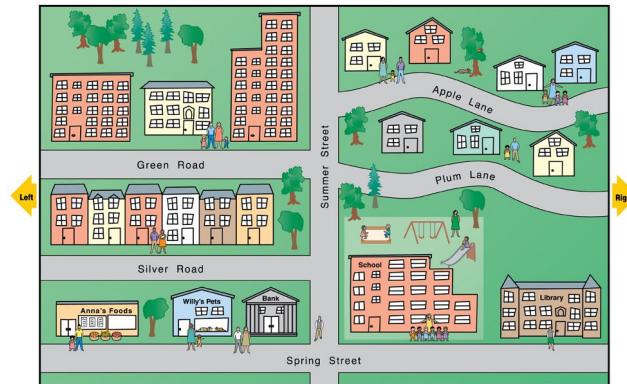
# NEIGHBORHOOD MAP



This is a map of my neighborhood.



Neighborhood Map



# Routes

How would you define the term route?

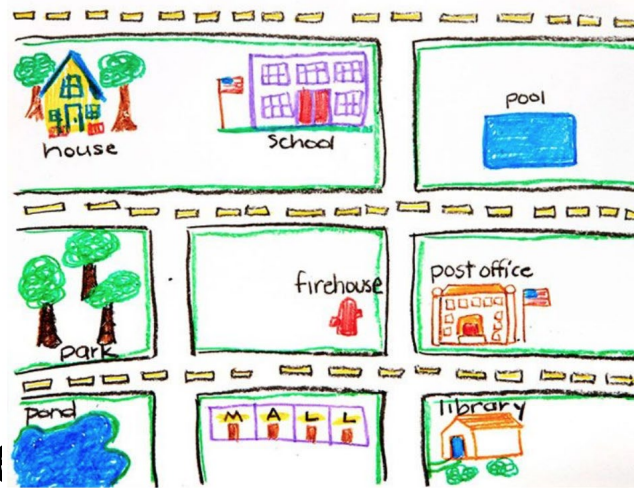
a way or course taken in getting from a starting point to a destination

What are the types of routes

associated with each mode of transportation?



# Infrastructure Observations



Analyze the sidewalks, bike lanes, safe crosswalks, etc. along your typical route to school.



# Solutionary Unit Framework

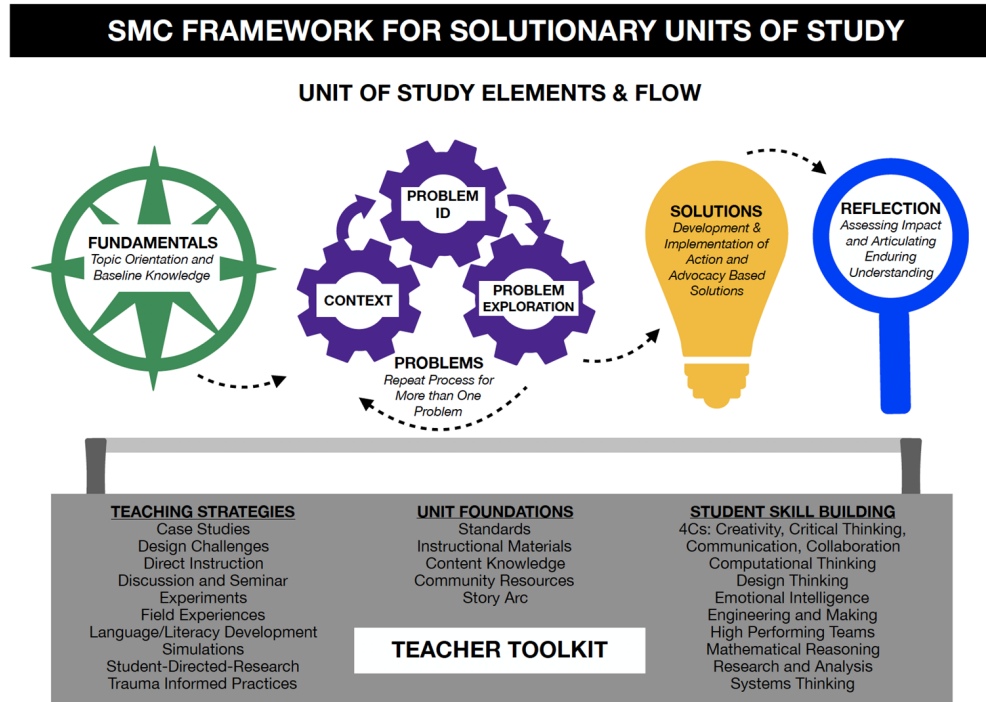
**PBLs:**  
Project, Problem,  
Place, and  
Phenomenon Based  
Learning

**Inquiry-Based  
Learning**

**Systems Thinking**

**Story Arc**

**Pedagogical  
Triangle**



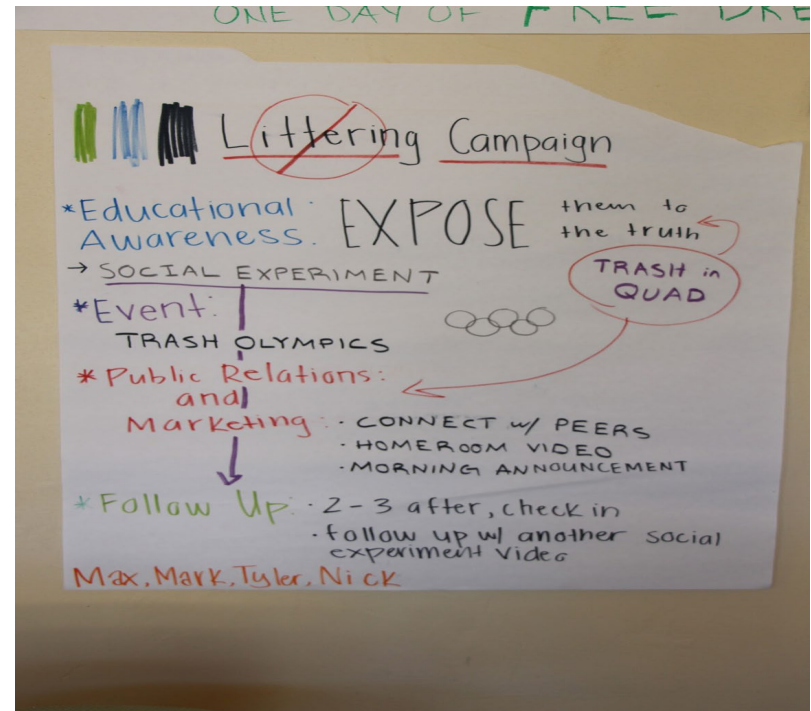
Framework inspired by Zoe Weil's *The World Becomes What we Teach* and The Institute of Humane Education  
See full description at: [tinyurl.com/SMCSolutionaryUnitFramework](http://tinyurl.com/SMCSolutionaryUnitFramework)

**Find Full Description @ [tinyurl.com/SMCSolutionaryUnit](http://tinyurl.com/SMCSolutionaryUnit)**

# Campaign (Initiative) Design

## Examples

- Walking Bus
- Infrastructure Improvement: bike lanes, sidewalks, racks, speed limit signs, speed bumps, bollard, etc.
- No-Idling Campaigns
- Big Dates and Year-Round
- Crossing Guards
- Neighborhood Beautification and Tree Planting
- Collective Transport



**Design A Campaign That Involves Awareness AND Advocacy &/or Action**

# Enduring Understanding (Example)

By learning more about the design of our community and safe transportation practices, we can make smart and informed decisions that ensure the health of the members of our community and the planet.

# Engineering: Crash Safety

## Balloon Brain: Designing a Helmet

Video Grades: K-8 Collection: Makers

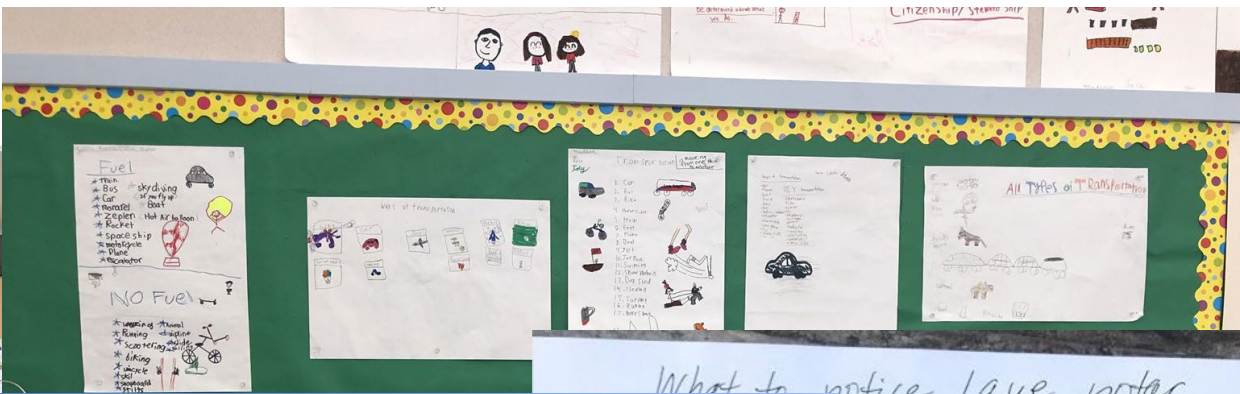


# Rolling and Pedestrian Skills





**Winners!**



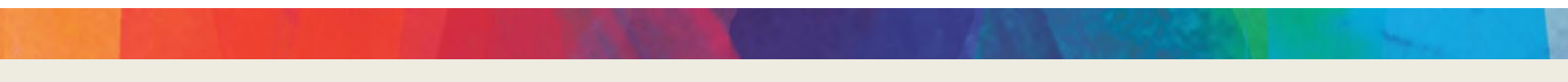
What to notice / que notar  
/ nombres de las calles  
yes / no / aceras  
sí o no  
yes / no / cruce de peatones  
marcada  
sí o no  
in roadway yes / no  
estacionados en la calle  
sí o no  
light or heavy  
tráfico - poco o mucho

# Challenges

- First attempt to conduct training during the school day
  - No substitute teachers
- Providing a stipend
- Reframing the curriculum from 2/4 grade units to K-5 over the summer



# Next Steps...Future of SRTS curriculum?

- Include into SMCOE San Mateo Environmental Learning Collaborative (SMELC) fellowship summer institute
  - Ongoing/permanent funding for future fellowships
  - Expand beyond San Mateo County
- 



Questions?

Thank you!

[vcastro@smcoe.org](mailto:vcastro@smcoe.org)

<http://tinyurl.com/SMCOE-SRTS-K5CurriculumPilot>



# WALK & TALKS



*Spare the Air Youth  
is a Climate  
Initiatives Program*





# PART II: INTEGRATING SRTS CURRICULUM INTO THE SCHOOL DAY



*Spare the Air Youth  
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# MCBC: Safe Routes to Schools

## Education: Elementary and Middle

- 2<sup>nd</sup> Grade: Traffic Safety / Walk Around the Block
- 4<sup>th</sup> Grade: Bike Rodeos
- 6<sup>th</sup> Grade: Bike Drills / Skills
- Family Biking
- Assembly



# MCBC: Safe Routes to Schools

## Elementary

- 2<sup>nd</sup> Grade: Traffic Safety / Walk Around the Block
- Steps to Safety - Asimo
- Experiential - Hands On
- Mid-block crossing



# MCBC: Safe Routes to Schools

## Elementary

### ➤ 4<sup>th</sup> Grade: Traffic Safety / Bike Rodeos

Rules of the Road

Obstacle Course

Quick Release

Traffic Circles

Cross Traffic



# MCBC: Safe Routes to Schools

## Middle School

- 6<sup>th</sup> Grade: Bike Drills / Skills
- Context – History / Bike Boom / Use Beyond School



Why are more people biking?

<b>Exercise</b> add years to your life	<b>Beat Traffic</b> save lives save time save the planet	<b>Fun</b> bikes 3X faster than walking
do better in school	save money	





# MCBC: Safe Routes to Schools

## Middle School

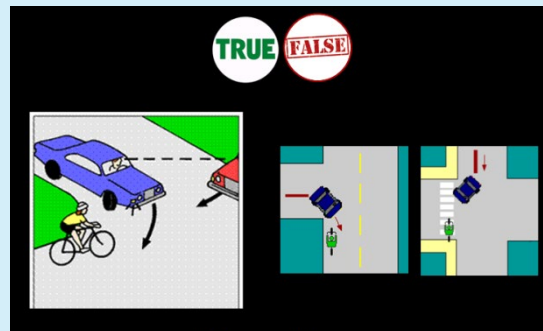
- 6<sup>th</sup> Grade: Bike Drills / Skills
- Quiz - Same Rules and Responsibilities

**TRUE** **FALSE**



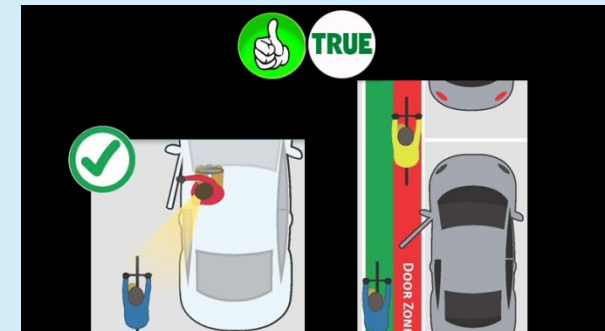
It is against the law to bike on the *sidewalk* or *crosswalk*.

**TRUE** **FALSE**



Bikers and drivers can go the *wrong way*.

**TRUE**



Car passengers must *check* before opening their *door*.

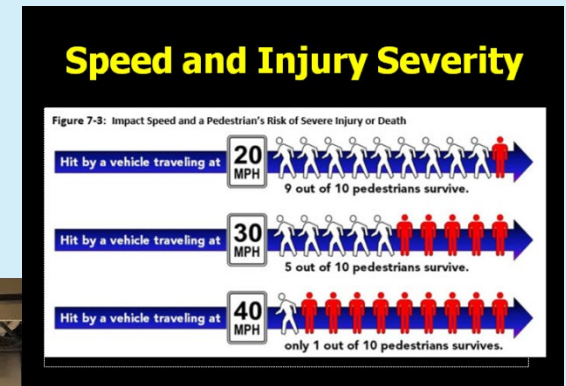
CVC 22517



# MCBC: Safe Routes to Schools

## High School

- Share the Road
- Bicycle - Pedestrian - Driver Safety
- Public Service Announcements





# Safe Routes to Schools: All Day, Everyday.

**Carrie Harvilla, Safe Routes to Schools Program Director**

**[charvilla@TransformCA.org](mailto:charvilla@TransformCA.org)**

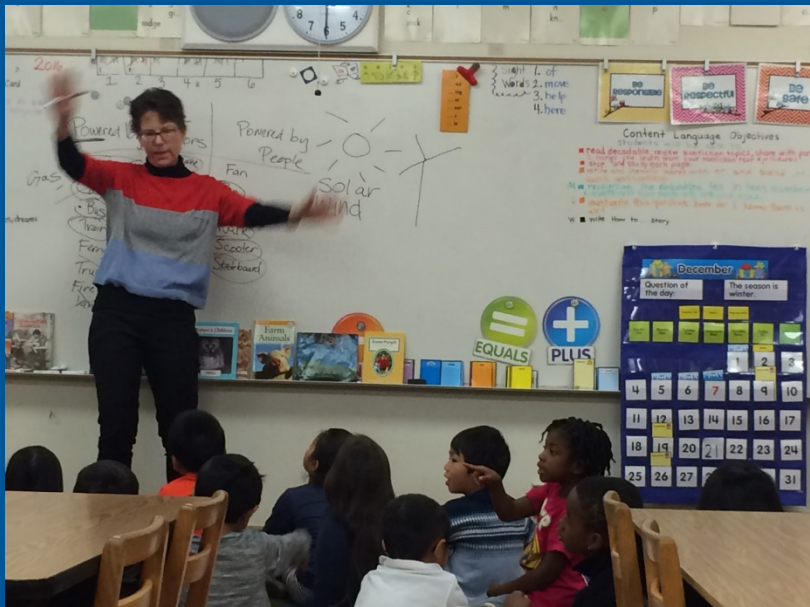
**[TransformCA.org](http://TransformCA.org)**

**[Facebook.com/TransformCA](https://www.facebook.com/TransformCA)**

**[Twitter.com/Transform\\_Alert](https://twitter.com/Transform_Alert)**



# K-5 Educator Guide



## Safe Routes to Schools Alameda County Walk and Roll K-5 Educator Guide: Activities for Creating Safe and Healthy Communities

**Includes:**

- Engaging grade level activities for the classroom and afterschool programs
- California State Content Standards correlations
- Themes on safety, community, health, and environment
- Ways to connect to Safe Routes to Schools program components
- Safety DVD and *This is the Way we Go to School* book
- Teacher Champion opportunities
- 30-minute Teacher Orientation

Questions? Contact Rachel Davidman, Education Coordinator  
rachel@transformca.org | 510-740-3150 Ext. 332

**Walk and Roll K-5 Educator Guide Order Form**

Name \_\_\_\_\_ School/Organization \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ Zip Code \_\_\_\_\_

Role \_\_\_\_\_ (teacher, admin, after school program provider)

What is the best way to reach you to schedule the Teacher Orientation? Circle one.

Phone \_\_\_\_\_ Email \_\_\_\_\_

Number of Guides \_\_\_\_\_ Principal Signature \_\_\_\_\_



# Align with educational goals

## Teacher testimonials

CONTENT STANDARDS CORRELATIONS vii

SR2S Educator Guide: California Content Standards Correlations							
<b>K-1</b>	<b>Use Your Head Before Your Feet</b>						
<b>Themes: Safety</b>	<b>Language Arts</b>	<b>Social Studies</b>	<b>Math</b>	<b>Science</b>	<b>P.E.</b>	<b>Health</b>	<b>Arts</b>
<b>Grade K</b>	Listening & Speaking 1.1, 1.2, 2.2				1.2, 1.3		Music 2.1, 2.2, 4.1, 4.2
<b>Grade 1</b>	Listening & Speaking 2.1 Reading 1.1, 1.3, 2.3						Music 2.2
<b>K-1</b>	<b>Pedestrian Safety Basics with Otto</b>						
<b>Themes: Safety, Community</b>	<b>Language Arts</b>	<b>Social Studies</b>	<b>Math</b>	<b>Science</b>	<b>P.E.</b>	<b>Health</b>	<b>Arts</b>
<b>Grade K</b>	Reading 2.5	K.4				Injury Prevention & Safety 1.8, 1.10, 7.2	Visual Arts 5.3
<b>Grade 1</b>	Listening & Speaking 1.1-1.5					Injury Prevention & Safety 1.4, 1.5, 7.1	Visual Arts 2.4, 2.8
<b>K-1</b>	<b>Walking Makes Sense</b>						
<b>Themes: Community</b>	<b>Language Arts</b>	<b>Social Studies</b>	<b>Math</b>	<b>Science</b>	<b>P.E.</b>	<b>Health</b>	<b>Arts</b>
<b>Grade K</b>	Reading: 1.18; Writing 1.1, 1.2; Listening & Speaking 1.1	K.1, K.4		Life Science 2.a; Investigation & Experimentation 4.a, 4. b, 4.e	1.1, 1.2		
<b>Grade 1</b>	Writing 1.1, 1.2, 2.1, 2.2 Listening & Speaking 1.1, 1.2, 1.3, 1.4, 1.5, 2.1, 2.4	1.2:3		Investigation & Experimentation 4.a,4.b,4.e			



# Transit Training



# Solve a school problem

## Find the class that fits





# Biking Out Loud Oral History Project

**Life in Lebanon**

Quote 1: "My parents didn't have a car to drop me or pick me up."

Quote 2: "I used to ride the bus to school."


Quote 3: "School was about 5 miles away."

"I remember one time we walked to go school without any slippers because we were so poor."

"We'd used to go to school with ripped clothes, no slippers, bags we didn't care. We never cared what we wore or had. We only cared going to school for knowledge and education."

"One time on the way to school, we were walking on our barefoot then I slipped on a huge nail, I kept bleeding. And so my sister grabbed a bunch of grass to stop the bleeding."



Wendy Orcine

**GOING TO SCHOOL**





"When I was a kid growing up in Beirut, to go to school I had to take the public bus, not the school buses you have here, but we had to get on the public transport bus and when I went to the elementary school that was pretty close by so I didn't take long. It was just bus ride and it took about five minutes, but when I went to high school, it was a much longer bus ride because my school was right on the other side of town, and I actually had to get two different buses so I had to get off one bus and then change to a different bus so that's just probably took a half an hour to get to school and to get back again."

"I got no more collection of jumping into anyone, particularly, no, but yes I often went in with my friends of course, Jimmy, but never any relatives. I didn't have any relatives. I didn't have any relatives that lived close by so my sister was younger than me and she went to a different school so we didn't go on the bus together. But I guess I must have seen people going to work and just because they had the same routine as I did."

"One of the things that I remember is that there was a fish and chip shop by one of the bus stops that I had to go on the way back from school and British fish and chip shops usually had, with the cooking fish and vinegar and pickled onions, so I always, I can always remember smelling that on the way home. And there was a candy store that we used to go into as well on the way or from school and we used to buy these little bag of chips that we really used to love. They were called, Ramones, and they were just like little crispy corn snacks, so I always remember those. That was a lot of fun."





# Be attentive to school themes

## Who needs projects?



# Go Green

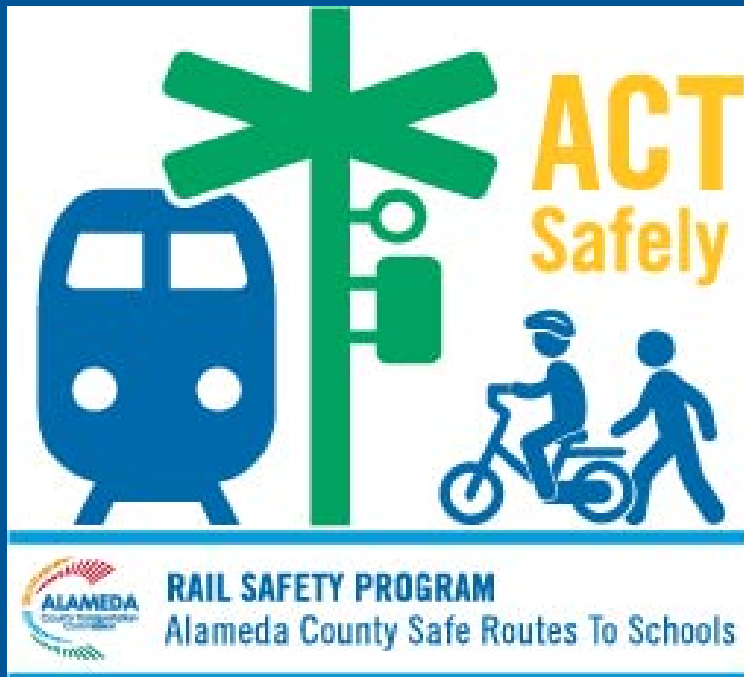


# Build off SR2S momentum

## Highlight cultural appeal



# Rail Safety Education



**A**lways look and listen for trains

**C**ross only at designated railroad crossings

**T**ake your time – never race the train to the crossing or travel along the tracks

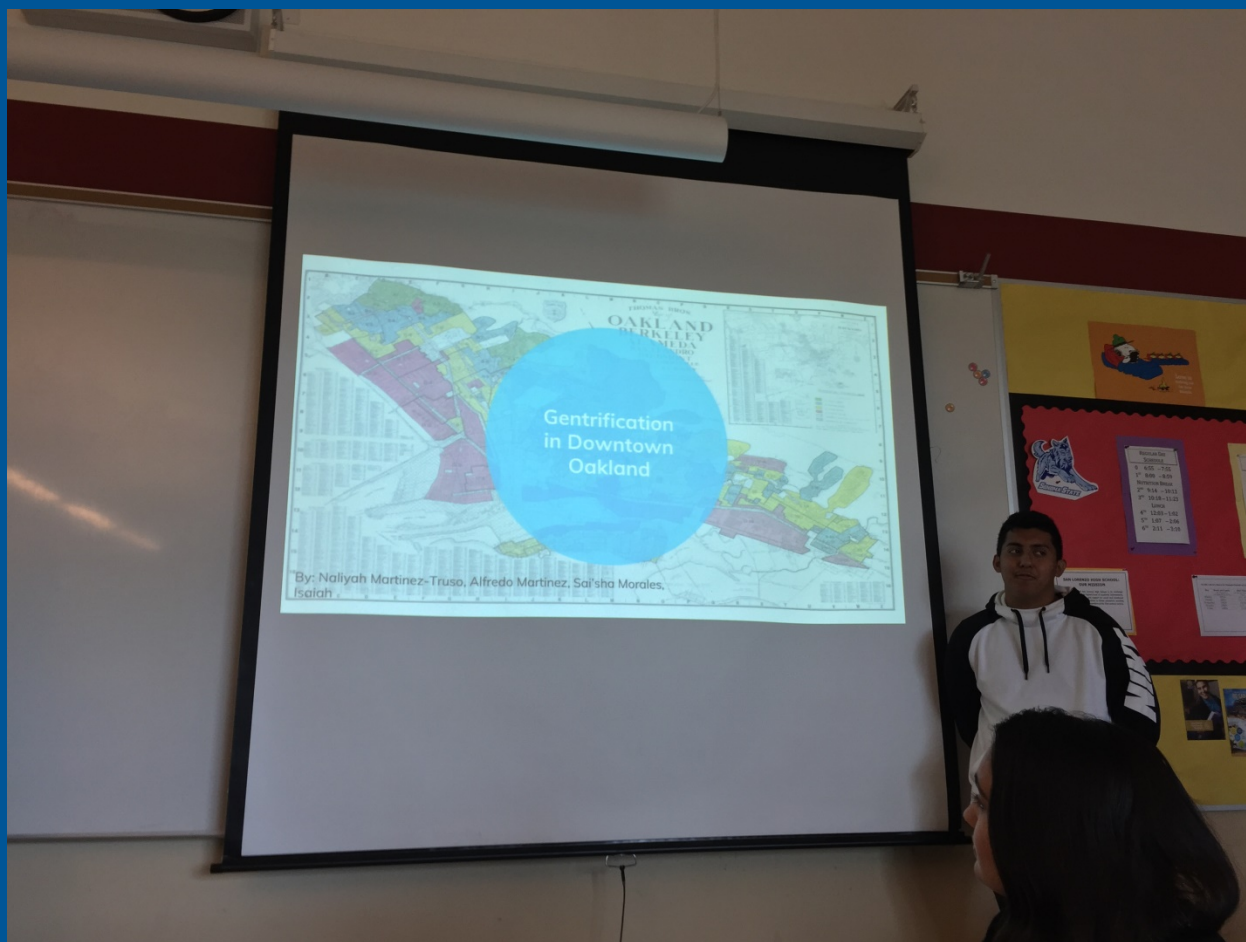


# Demonstrate your flexibility

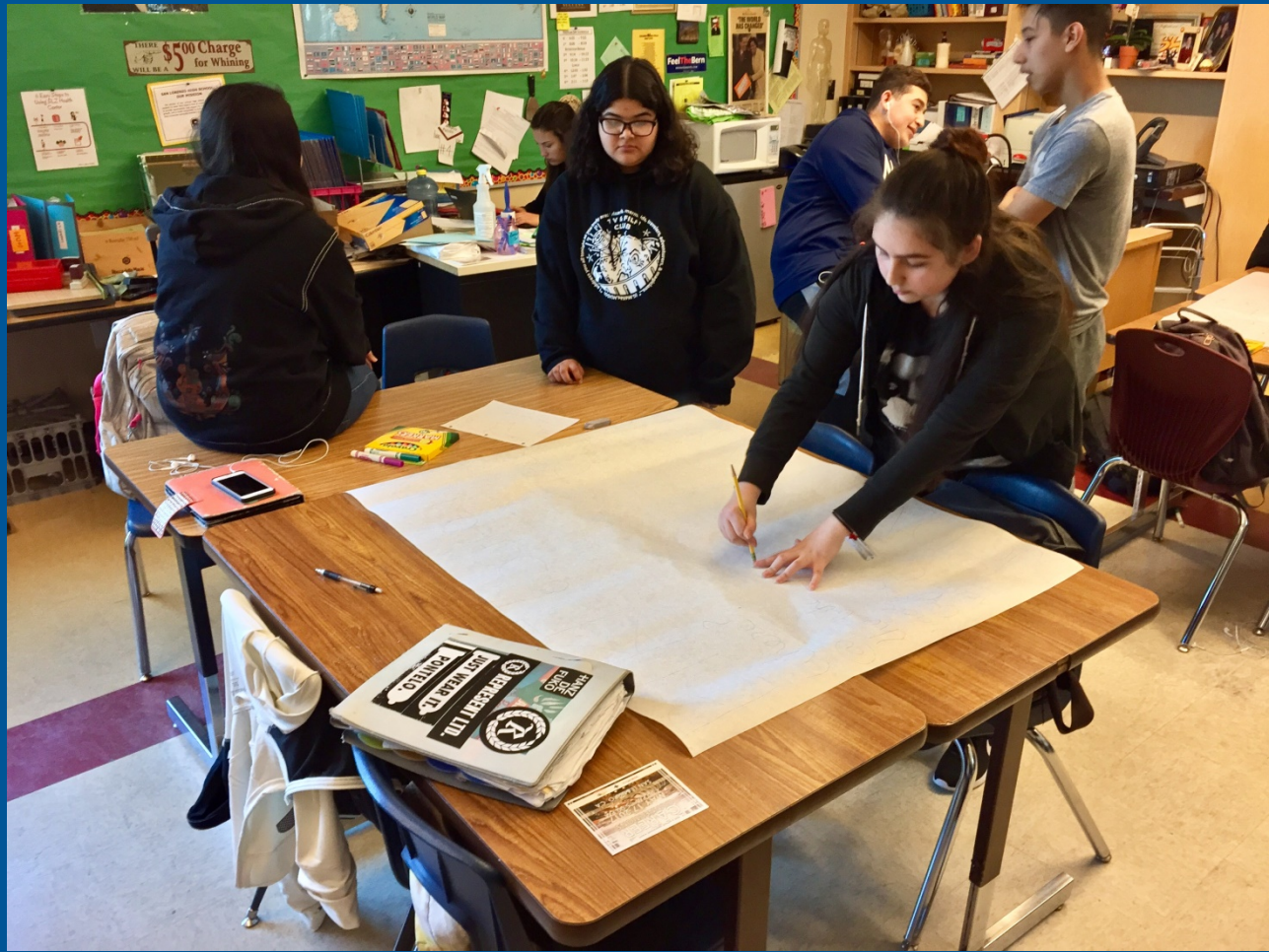
## Bring the issue home



# AP Human Geography



Look in unexpected places  
Be creative





# 2019-22 HIGH SCHOOL GRANT PROPOSAL



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# STAY HIGH SCHOOL PROGRAM

- 4-year Initiative
- Deepen SRTS efforts in High Schools
- Funding innovative and learning programs
- Year-long grants, up to 10K to “vendors”

Organization	School(s)	Project
<b>2018/2019 School Year</b>		
<b>Earth Team</b>	JFK High School; Richmond High School	Something is in the Air
<b>Marin County Bicycle Coalition</b>	San Marin High	Share the Road Education and Encouragement Campaign
<b>San Francisco Bicycle Coalition</b>	Mission High School	Mission Youth Bike Club
<b>TransForm</b>	Alameda Co. High Schools	Safe Routes to School Youth Champions
<b>Peninsula Family YMCA</b>	Redwood High School	Redwood High School Bike Shed Program
<b>2019/2020 School Year</b>		
<b>Transform</b>	Alameda Co. High Schools	McClymonds HS “Walk and Roll TV”
<b>Peninsula Family YMCA</b>	Redwood High School	Redwood High School Bike Shed Program
<b>Earth Team</b>	JFK High School; LPS High School	Something is in the Air

# BARRIERS TO EXISTING PROGRAM

- Small funding amount – 6-10K
- Relationship building with new age group
- Evaluation requirements
- Grant period
- Regional issues



# REVISED APPROACH

- Regional Task Forces
- Two Year Grant Period
- Regional Coordinators





# REGIONAL TASK FORCES

- Four Regional Task Forces
  - Central Area Task Force – San Francisco, Alameda
  - East Area Task Force – Solano, Contra Costa
  - South Bay Task Force – Santa Clara, San Mateo
  - North Bay Task Force – Marin, Sonoma, Napa
- Members include SRTS County Administrators
- Help recruit applicants, review applications, build capacity



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# REGIONAL COORDINATORS

- Facilitate bi-monthly task force meetings
- Attend countywide meetings and share information and resources
- Build capacity among organizations interested in applying for HS programs



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