

Spare the Air Youth

Technical Advisory Committee Meeting
June 15, 2016




YES: Youth for the Environment and Sustainability 2016

Spare the Air Youth
June 15, 2016

Active Transportation Resource Center (ATRC) Highlights, with a special focus on the California Pedestrian and Bicycle Safety Curriculum for Grades 4 and 5

*Victoria Custodio, California Department of Public Health
June 15, 2016*



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ATRC Assistance

- Help you brainstorm best practices and locate appropriate resources for unique community needs
- Talk through Caltrans Active Transportation Program (ATP) guidance for non-infrastructure (NI) programs
- Maintain a “novice to expert” SRTS NI resource website www.CA saferoutestoschool.org
- Host webinars and teleconferences for training and peer-to-peer sharing opportunities
- Conduct presentations and workshops as requested and approved by Caltrans

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Sample ATRC Resources

- Creating Safe Routes to School Programs in Tribal Communities in California
- Safe Routes to School Programs in Rural California: A Guide for Communities and Partners
- Safe Routes to School and Student Leaders: Facilitator’s Guide to Engaging Middle School Youth
- Crosswalk: Where the Needs of School Principals and Safe Routes to School Programs Intersect
- California Pedestrian and Bicycle Safety Curriculum for Grades 4 and 5

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CA Pedestrian and Bicycle Safety Curriculum for Grades 4 and 5 - Background

- A project of the Safe Routes to School Technical Assistance Resource Center (TARC) in collaboration with the California Healthy Kids and After School Resource Center
- Endorsed by the California Department of Education, Caltrans, and California Department of Public Health
- Funded by Caltrans
- Ready for download: <http://www.californiahealthykids.org/product/9718>

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CA Pedestrian and Bicycle Safety Curriculum for Grades 4 and 5 - Background

- Developed and tested with input from an expert-advisory panel:
 - Credentialed teachers
 - Pedestrian and bicycle safety experts
 - Safe Routes to School practitioners
- Target for 4th and 5th grades - result of a comprehensive needs assessment and review of existing pedestrian and bicycle safety education curriculum materials
- Curriculum and lessons authored by Healthy Kids and After School Resource Center

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CA Pedestrian and Bicycle Safety Curriculum for Grades 4 and 5 - Overview

- Nine 4th and 5th grade lessons
- Aligned with the Common Core State Standards (CCSS) and the CA Health Education Standards
- Aligned with the National Health Education Standards
- Integrated with English Language Arts (ELA), math, science, health and physical education
- The alignment to the CCSS and integration with core subject areas should make the curriculum easier for teachers to use

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Curriculum Content Highlights: Lesson 1

Time to Get Moving!

Topic: Health Benefits of Walking/Bicycling

Focus: Physical Education

Students make a plan for scheduling 60 minutes of physical activity into their lives each day.



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Curriculum Content Highlights: Lesson 2

Exercise Your Superpower!

Topic: Health Benefits of Walking/Bicycling

Focus: Science

Students explore the health benefits of physical activity and create comic strips showing the “superpowers” of physical activity.




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Curriculum Content Highlights: Lesson 3

Prescribe a Pollution Diet

Topic: Environmental Impact of Walking/Bicycling

Students learn how transportation choices impact air pollution. They help “Pollutey Judy” calculate and reduce the amount of air pollution that she produces each day.




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Curriculum Content Highlights: Lesson 4

Rules of the Road

Topic: Pedestrian and Bicycle Laws

Students learn about pedestrian and bicycle safety laws and consider real-life scenarios where these laws apply.





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Curriculum Content Highlights: Lesson 5

Design Your Own Traffic Sign Game

Topic: Pedestrian Safety

Students identify the meaning and importance of traffic signs. They design and play games to teach about traffic signs.

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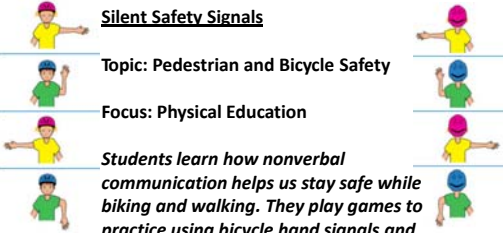
Curriculum Content Highlights: Lesson 6

Silent Safety Signals

Topic: Pedestrian and Bicycle Safety

Focus: Physical Education

Students learn how nonverbal communication helps us stay safe while biking and walking. They play games to practice using bicycle hand signals and eye contact.




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Curriculum Content Highlights: Lesson 7

Get Your Helmet On!

Topic: Bicycle Safety

Students analyze the influences that contribute to bicyclists wearing helmets and create persuasive advertisements to teach bicycle safety.




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Curriculum Content Highlights: Lesson 8

How Can We Be Safe on Our Routes to School?

Topic: Safe Routes to School

Students examine factors that affect pedestrian and bicycle safety and assess the safety of their routes to school.




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Curriculum Content Highlights: Lesson 9

Getting to School– What's the Cost?

Topic: Environmental Impact of Walking/Bicycling

Students evaluate the environmental, practical, and monetary cost of different modes of transportation.



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Example of content integration:

Mathematics Integration:
 Students work with the calculation 1 mile = .97 pounds of air pollution* to determine how much air pollution Judy is creating each day. They use mathematics in a real-world context by multiplying and adding to calculate the amount of air pollution Judy produces.

English Language Arts Integration:
 Students write opinion pieces convincing Pollutey Judy of the importance of making safe and eco-friendly transportation decisions.

Health Integration:
 Students identify ways to increase, monitor, encourage, and promote physical activity.

* <http://www.youcanbikethere.com/content/environmental-benefits-0>

Common questions from ATP awardees and interested applicants

- What if I am not planning to work with 4th and 5th graders in my SRTS Program?
 - Consult ATRC for options for other grades.
- Does this curriculum include lessons for ‘on the bicycle’ training?
 - No. Other resources exist to assist with this type of programming.
- If I am planning to work with 4th and 5th graders, do I have to use this curriculum in my ATP project?
 - No. Many resources exist and can be considered. Please consult ATRC for other options if you require assistance.
- Can I develop my own curriculum?
 - For ATP, consider CT guidance...

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ATP Non-Infrastructure Program Guidance - Materials Production (6/11/15)

- Use of existing materials already developed (by the National Center for SRTS, the ATRC, FHWA, other states, etc.) is encouraged.
- Expenses to design/develop alternative SRTS/Bike/Pedestrian materials must be approved by the Caltrans ATP SRTS and NI Program Manager (Exception: School Walking and/or Bicycle Route Maps).
- Caltrans ‘ATP NI ITEM ELIGIBILITY EXCEPTION PROCESS’ is detailed in Local Assistance Procedures Guideline, Chapter 22:
 - http://www.dot.ca.gov/hq/LocalPrograms/atp/documents/2016/Cycle3_ATP_LAPG_ch22.pdf

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Criteria used to choose ATRC curriculum links

- Aligned with the goals of ATP
- Current look and feel
- Can be broken down into single lessons and/or adapted for ease of use
- Variety at each grade level
- Each lesson has stated objectives
- Easy to access/user-friendly website

Grades	Curriculum Title	Curriculum Type	Organization	Highlights
4-5	5232 Pedestrian Safety Curriculum	Pedestrian	NESTA	Aligned with National Standards; curriculum broken down into 3 lessons per grade level (K, 1 st , 2 nd , 3 rd , 4 th , 5 th)
4-5	541's 50.19C	Bicycle	North Carolina DOT	Aligned with Common Core; curriculum broken down into 3-5 lessons per grade level (K, 1 st , 2 nd , 3 rd , 4 th , 5 th)
4-5	541's 50.19C	Pedestrian	North Carolina DOT	Aligned with Common Core; curriculum broken down into 3 lessons per grade level (K, 1 st , 2 nd , 3 rd , 4 th , 5 th)
4-5	5232 Educator's Guide	Bicycle and Pedestrian	Alameda WSD	Aligned with California Standards; curriculum broken down into age-appropriate lessons (K, 1 st , 2 nd , 3 rd , 4 th , 5 th)

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ATRC Website

www.CAsaferoutestoschool.org

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Your ATRC Non-Infrastructure Regional Technical Assistance Coordinators:

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Thank you!

District 4 ATRC Regional Coordinator:

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ECO2school Challenge



2,349 participants
CO₂ emissions reduction TBD

Year End



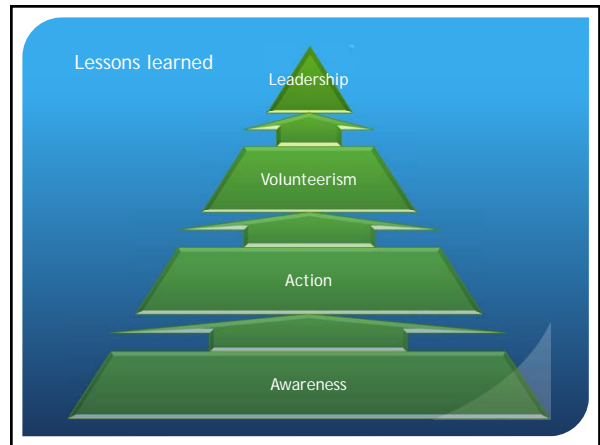
Fighting CO₂ with cocoa

Sonoma County
15,000 students at 12 schools
10,000 participants

Year End



Silicon Valley Bicycle Coalition County
917 participants at 3 schools



Transportation Nation




Goals

To raise awareness of why students should use public transit and to host *FUN* events to learn how to use it.



Objectives

- Build awareness of public transit system and passes.
- Educate students at three high schools.
- Empower Student Transit Ambassadors.
 - Education and promotion of transit.
- Provide an event for experiential learning.

Tools and Activities

Student Transit Ambassadors - Presentations

- Benefits of Transportation.
- How to Use Public Transportation.
- Promotion of Transit Race.

Drake High School: Transit Race

SEA Disc Students

- Presentations to Freshman
 - 300 students
- 15 Students – Transit Race



Transportation Scavenger Hunt



Redwood High School: Event to get students to try the bus

Environmental Action Club:

“Ride the Bus” Event

- and Sustainability Festival:
- Promotion to 800 students
- 300 students – raffle
- Booth – Environmental Ed.



TAM High School

Focus Group: 6 students – Transit Use

- Low Income vrs. High Income
- Leave Campus for Lunch
- Not Convenient



Outcomes


"I love this event – do it again!" *"Super fun – it taught me a lot!"*

- Outreach to an estimated 3,000 students at 4 schools.
- Demonstrated attitudinal shift.
- 100% students said recommend race to others.
- 98% would ride transit more as a result of the race.

"It's fun because you feel independent; you don't have to rely upon your parents to take you places – it's your own thing – it's pretty cool."

Aquarium of the Bay

BayMobile – Bringing the Bay Your Way!
 Jeff Schreiber – Institutional Giving Officer
 Daniel Elkin – k-12 Outreach Coordinator



Running Stats
 2015-2016 School Year
 Summer 2016
 Future Events



BayMobile Running Totals

Statistics for programs executed during the 2015/2016 school year

- 97 trips, 255 programs, reaching approximately 6992 students

Statistics for programs executed during the 2014/2015 school year

- 145 trips, 495 programs, reaching approximately 12,874 students
- We have passed our initial goal of 450 programs for the school year

Special Events:
 74 events, reaching approximately 11,543 people.

2015-2016 Highlights

- Marin ELLC Pathways
- YMCA After School Program
- CRS Science Super Stars
- Google / Earth Day Events
- YES CONFERENCE!




Summer 2016

- BayMo For Hire
- Summer Camps / Libraries
- Community Outreach Events
- 5-Day YMCA Summer Camps
- Super Clean ☺





The Future of the BayMobile


- Drive On!
- 5-Day / 8-Week Long Curriculum
- Pathways & Partnerships
- Future Funding
- Continue Evolving
- Reservations Live on Aug. 22nd








	Goal	To Date
Visits	280-300	342
Repairs	6600	8000
Ridership Increase	70%	51%
Bikes Donated	--	120


Scalability

- Model works beyond Alameda County
- SR2S partners are awesome
- 50% vs 70% mode shift
- Affluent areas utilize service, too
- Libraries rock





Logistics

- No pre-event signup
- Seasonality tough for staff
- Offer bonus visits during slow season
- Better organized tools & parts


New Additions

- Facebook page
- Bike giveaways
- Clown bikes
- Photo-op board
- Diagram magnets
- Sketch book




Future Growth

- Anyone can be a huge supporter
- Encourage counties to find matching funds
- Invite politicians, media
- Agencies like the outreach aspect
- 3 more years!

Information Sharing & Upcoming Events

