

King County Metro

# SAFE ROUTES TO SCHOOL toolkit



APPENDIX B

**Appendix B.**

**IMPLEMENTATION TOOLKIT**

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## Education Materials

### Classroom Curriculum & Skills Training

What?	<p>Teach students about traffic rules, their transportation options, and how to safely navigate age-appropriate situations. This matrix provides curricula and lesson plan options for educators to reference and implement with students in grades kindergarten through twelfth grade.</p> <p>These lessons apply to physical education, health, geography, social science, science, and math classes. Each resource identified includes an explanation of the key takeaways and the target audience.</p>
Who?	<p>Pedestrian: Kindergarten-12th grade</p> <p>Bike: 2nd-12th grade</p> <p>Transit: Kindergarten – 12<sup>th</sup> grade</p> <p>Carpool: 4<sup>th</sup> – 6<sup>th</sup> grade</p>
When?	Hold as regularly as possible, with safety training and skills elements in the spring and fall
How?	<p>The materials can be part of an in-class math, science, writing, geography, or health lesson or implemented during a PE class. See the Curriculum Matrix below for recommended curriculum by topic and grade.</p> <p>Use this matrix in the following ways that best suits your teaching needs:</p> <ul style="list-style-type: none"> <li>• Pull one or more individual lesson plans from the matrix or from the curricula themselves,</li> <li>• Choose and combine lesson plans from different curriculum,</li> <li>• Implement an entire curricula,</li> </ul>
Equity + Accessibility	<ul style="list-style-type: none"> <li>• Provide adaptive bicycles with trained support staff for students with physical challenges</li> <li>• Use age-appropriate curriculum for a range of grade levels</li> <li>• Provide bicycles so all students can participate</li> </ul>

**Table 1. Elementary School Pedestrian & Bicycle Safety & Skills Curricula**

Resource	Audience	Key Takeaways
<b>Pedestrian Safety &amp; Skills Curricula</b>		
NHSTA's <a href="#">Child Pedestrian Safety Education (Teachers full PDF Guide)</a>	K – 5	This thorough child pedestrian safety curriculum teaches and encourages pedestrian safety. The curriculum includes lesson plans, assessment guides, student response forms and parent/caregiver tip sheets in Spanish for broken into the following age categories: K – 1, 2 – 3, 4 – 5. It is organized into five lessons per age group: walking near traffic, crossing streets, crossing intersections, parking lot safety, and school bus safety.
<a href="#">K-5 Let's Go NC Walking</a>	K – 5	This thorough curriculum includes five safety lesson concepts on walking near traffic, crossing streets, crossing intersections, walking near school buses and walking in parking lots. Lesson plans are broken into the age categories of: K – 1, 2 – 3, 4 – 5. These lesson plans include outside/physical education class activities and in-class activities.
K-5 <a href="#">Alameda County SR2S Educator's Guide</a>	K – 5	This easy to follow curriculum provides clear and attractive activities and in-class or take-home activities and handouts. It covers pedestrian safety materials using already made visual materials for teachers and

Resource	Audience	Key Takeaways
students. This curriculum provides lesson plans for outside/physical education class activities and in-class activities. . Lesson plans are broken into the age categories of: K – 1, 2 – 3, 4 – 5.		
<b>Bicycle Safety &amp; Skills Curricula</b>		
Pedestrian & Bicycle Information Center: <a href="#">Bicycle Safer Journey</a>	K – 5	This resource provides videos in English and Spanish on how to ride a bike, when and where to ride, and other bicycle safety tips. Additionally, it contains English and Spanish quizzes for evaluating learning and parent/caregiver tip sheets to send home. Lessons are broken up by age ranges. Applicable to these grades are the materials for <a href="#">Ages 5 – 9</a> .
BTA's Grades 4-7 <a href="#">Safe Routes for Kids Bicycle Safety Program Curriculum (3<sup>rd</sup> ed)</a>	4 – 5	This curriculum teaches traffic savvy bicycle safety through classroom activities and on-the-bike skills practice. Students learn content on bicycle traffic laws, hazards, helmets, gear, and bike parts. Bicycle handling skills include learning stopping, controlling, and signaling. Finally, lessons on street safety include information on riding with traffic and intersection safety. Lesson plans applicable to grades 4 through 7, but easily tailored to remain at the 4 <sup>th</sup> to 5 <sup>th</sup> grade level.
<b>Mapping &amp; Geography Curricula</b>		
<a href="#">Alameda SR2S K-1</a> : Lesson plan: Walking Makes Sense	K – 1	This lesson plan focuses on Geography & Sensory Skills. Using their senses, students gather information about their neighborhoods. Students take a walk around their school neighborhood paying attention with their senses and then go on a Pedestrian Safety Scavenger Hunt. Students can use this as an opportunity to practice Smart and Safe Pedestrian behaviors.
<a href="#">Alameda 2-3</a> : Lesson plans: Intersections Galore, Walk Around the Block, Active Travel Choices, Pollution Solutions.	2 – 3	These lesson plans integrate pedestrian and bicycle safety skills into math, graphing, environmental science and mapping exercises. Pedestrian safety skills focus on intersections, crossings, walking as a group, and traffic signs. Math skills include graphing, charting, addition, and comparing numbers. Environmental health skills incorporate lessons on CO2 conversation and energy expenditure while being active.
<a href="#">Alameda 4-5</a> : Lesson plans: School Safety Audit, My Safe Route to School, What's in Our Air?, Let's Carpool!	4 – 5	Students learn and apply pedestrian safety and mapping skills, while planning and conducting their walk audits or mapping their routes to school. In analyzing routes, audits, and behaviors, students can build critical thinking skills. The lesson plans also provide education on community activism, advocacy and critical thinking.
Alameda Safe Routes to School <a href="#">Walk &amp; Roll Day In-Class Guide</a>	K – 5	The activities in this section are great for reviewing concepts, preparing for Walk and Roll to School Days, or to do as a culminating activity. Walk and Roll Art Studio and What's Your Story are designed to work with grades K - 5. Walk and Roll Team Trivia and What's the Speed Limit? are more appropriate for grades 3 - 5.
Iowa Bicycle Coalition: <a href="#">Kids on the Move Bicycle and Pedestrian Safety Curriculum</a>	K – 5	This curriculum focuses on integrating SRTS education into health, language arts, social studies and science. Students will understand how walking, biking, and riding a bus promote good personal and environmental health; how to be safe while walking, biking, and riding in a car and bus using proper equipment and safety behaviors. The curriculum includes classroom and physical education activities, worksheets, and quizzes.

Resource	Audience	Key Takeaways
<b>Transit &amp; Carpooling Curricula</b>		
TriMet: <a href="#">Teaching Transit: Resources for Educators</a>	K – 5	TriMet’s collection of Earl P. Nutt’s short movies, puzzle books, and activity sheets teach students about safety in using public transit, as well as walking and bicycling near and around public transit infrastructure.
Minneapolis Metro Transit: <a href="#">Metro Man &amp; Lightrail Lady</a>	4 – 5	This video teaches students about safety and responsibility in riding public transit.
Bay Area Air Quality Management District: <a href="#">Protect Your Climate Curriculum</a> – Lesson 14 Car Tally	4 – 6	This lesson plan allows students to observe their environment, count and analyze data and explore carpooling as a way to reduce emissions from single family vehicle trips.

**Table 2. Middle School Pedestrian & Bicycle Safety & Skills Curricula**

Resource	Audience	Key Takeaways
<b>Pedestrian Safety &amp; Skills Curricula</b>		
WA State <a href="#">OSPI Bike &amp; Pedestrian Safety Education Program</a> (Lessons 2, 3 & 8)	6 – 8	Lesson plans in this curriculum focus on pedestrian safety rules (lesson 2), safety skills and practices such as being seen (lesson 3), and assessing the safety of the pedestrian environment (lesson 8).
<b>Bicycle Safety &amp; Skills Curricula</b>		
Pedestrian & Bicycle Information Center: <a href="#">Bicycle Safer Journey</a>	6 – 8	This resource provides videos in English and Spanish on how to ride a bike, when and where to ride, and other bicycle safety tips. Additionally, it contains English and Spanish quizzes for evaluating learning and parent/caregiver tip sheets to send home. Lessons are broken up by age ranges, applicable to this grade set are the materials for <a href="#">Ages 10 – 14</a> .
BTA’s Grades 4-7 <a href="#">Safe Routes for Kids Bicycle Safety Program Curriculum</a> (3 <sup>rd</sup> ed)	6 – 7	This curriculum teaches traffic savvy bicycle safety through classroom activities and on-the-bike skills practice. Students learn content on bicycle traffic laws, hazards, helmets, gear, and bike parts. Bicycle handling skills include learning stopping, controlling, and signaling. Finally, lessons on street safety include information on riding with traffic and intersection safety. Lesson plans applicable to grades 4 through 7, but easily tailored for the 6 <sup>th</sup> and 7 <sup>th</sup> grade level.
American Alliance for Health, Physical Education, Recreation and Dance: <a href="#">Bikeology Curriculum: Part 1, Part 2, &amp; Parent Guide</a>	6 – 8	This bicycle safety curriculum is tailored for grades 6 – 12 to be used in physical education and recreation programming. It is aligned with the National Standards for K-12 Physical Education and includes lessons and assessments for the skills and knowledge students need to enjoy a lifetime of safe bicycling. Lessons provide extensive skill building opportunities on learning how to safely ride and maintain a bicycle in a variety of settings. It also includes a guide to share with parents that provides ways in which they can support safe bicycling, including guidance on selecting an appropriate bicycle and helmet for their child.

Resource	Audience	Key Takeaways
<b>Pedestrian &amp; Bicycle Combined Curricula</b>		
WA State <a href="#">OSPI Bike &amp; Pedestrian Safety Education Program</a>	6 – 8	This comprehensive bicycle and pedestrian skills curriculum focuses heavily on skill building in physical education and health. Walking lesson plans include skills for choosing routes, crossing streets safely, and assessing barriers to walking. Biking lesson plans include traffic principles, communication, handling skills, and encouragement for enjoyment of riding a bike for life.
<b>Health, Science, Math Curricula</b>		
Colorado Department of Transportation: <a href="#">Core Subject Lesson Plans</a> : Eco Points Score Card, Traffic Tally, Transportation Efficiency	6 – 8	These CDOT lesson plans integrate math, science and health concepts by assessing health and environmental impacts of transportation choices, and comparing energy consumption and exertion based on transportation mode.
RideShare Online: <a href="#">Commuter Cost Savings</a> and <a href="#">Trip Calendar</a>	6 – 8	RideShare Online provides various tools on calculating commute costs and logging trips. It also includes information on transportation options and transportation safety.
Oregon Department of Transportation: <a href="#">Neighborhood Navigators Curriculum</a>	6 – 8	This curriculum explores how our travel mode choices affect the environment. The lessons examine how our history of travel affects our choices and habits today.
GetFit TN: <a href="#">Kids Calorie Counter</a>	6 – 8	This tool can complement health and science lesson plans on energy consumption of food and energy exertion based on activities. Information and calculators are organized into “fuel,” “move” and “recharge” categories.
Active Transportation Alliance: <a href="#">Unlocking Your Future: Transportation Lessons for Middle School</a>	6 – 8	This curriculum connects physical activity and career exploration with active transportation learning. Lesson plans include education on urban planning, health, bicycle safety and bicycle components, geography and environmental law.

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**Transit & Carpooling Curricula**

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Bay Area Air Quality Management District: <a href="#">Protect Your Climate Curriculum</a> – Lesson 14 Car Tally	4 – 6	This lesson plan allows students to observe their environment, count and analyze data and explore carpooling as a way to reduce emissions from single family vehicle trips.
TriMet: <a href="#">Teaching Transit: Resources for Educators</a>	4 - 8	TriMet's collection of Earl P. Nutt's short movies, puzzle books, and activity sheets teach students about safety in using public transit, as well as walking and bicycling near and around public transit infrastructure.
Minneapolis Metro Transit: <a href="#">Metro Man &amp; Lightrail Lady</a>	4 – 8	This video teaches students about safety and responsibility in riding public transit.
National Highway Traffic Safety Administration: <a href="#">Safe Routes to School Classroom Activities</a> : Transit Field Trip and Transit to Careers	6 – 8	These exercises give students an opportunity to learn about and experience public transportation, as well as how to combine walking and biking with using public transit.
Transportation Careers: Transportation Planning for Middle School	6 – 8	These lesson modules teach middle school students about mass transit systems through activities on designing routes and integrating various modes of transportation within their transportation network.

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**Table 3. High School Pedestrian & Bicycle Safety & Skills Curricula**

Resource	Audience	Key Takeaways
<b>Bicycle Safety &amp; Skills Curricula</b>		
American Alliance for Health, Physical Education, Recreation and Dance: <a href="#">Bikeology Curriculum: Part 1, Part 2, &amp; Parent Guide</a>	9 – 12	This bicycle safety curriculum is tailored for grades 6 – 12 to be used in physical education and recreation programming. It is aligned with the National Standards for K-12 Physical Education and includes lessons and assessments for the skills and knowledge students need to enjoy a lifetime of safe bicycling. Lessons provide extensive skill building opportunities on learning how to safely ride and maintain a bicycle in a variety of settings. It also includes a guide to share with parents that provides ways in which they can support safe bicycling, including guidance on selecting an appropriate bicycle and helmet for their child.
Pedestrian & Bicycle Information Center: <a href="#">Bicycle Safer Journey</a>	9 – 12	This resource provides videos in English and Spanish on how to ride a bike, when and where to ride, and other bicycle safety tips. Additionally, it contains English and Spanish quizzes for evaluating learning and parent/caregiver tip sheets to send home. Lessons are broken up by age ranges, applicable to this grade set are the materials for <a href="#">Ages 15 – 18</a> .
<b>Transit &amp; Carpooling Curricula</b>		
American Public Transportation Association: <a href="#">Public Transportation Curriculum</a>	9 – 12	This thorough curriculum provides modules that explore public transportation’s history, governance, finance, policy, planning and design, service planning, and technology and trends. Each module includes a powerpoint and reading materials.
Transportation Careers: Transportation Planning for High School and for Middle School	9 – 12	These lesson modules teach high school students about mass transit systems through activities on designing mass transit routes, bicycle paths, and walkways within their transportation network.
National Highway Traffic Safety Administration: <a href="#">Safe Routes to School Classroom Activities</a> : Transit Field Trip and Transit to Careers	9 -12	These exercises give students an opportunity to learn about and experience public transportation, as well as how to combine walking and biking with using public transit.



## **Crossing the Intersection: Example Lesson Plan Overview**

Suggested Grade Level K - 1

Suggested Time 25 minutes

Setting Auditorium, classroom, or gymnasium

Learning Style Access Auditory, kinesthetic, visual

### **Overview**

To understand the complexities and differences between crossing the street and crossing an intersection.  
To develop the skill of looking behind after looking to the left, to the right, and again to the left.

### **Materials**

Overhead/Handout K.3.1; Overhead/Handout K.3.2; "Walk/Don't Stop" Sign K.3.3; "Intersection Crossing Activity" Graphic K.3.4; "Safe Crossing Steps" Cut-Out Sheet K.3.5 (*optional*); Concentration Cards K.3.6 (*optional*); 3 Boxes; scissors (*optional*).

### **Vocabulary**

Intersection, crosswalk, pedestrian signal, push-button.

### **Modifications for Children with Disabilities**

Hyperactive students should be selected as helpers "flipping their boxes," for the "Checking for Understanding" activity, have some pieces already cut. Have a class-set of all pictures and give to students instead of using an overhead.

### **Modifications for Use in Low Income Schools**

Can be done just drawing letters, numbers, or shapes on white pieces of paper, doesn't require full-color printouts.

### **Impressions**

Great for a non-lecture lesson. Kids get involved helping and out of their chairs practicing. You could practice in a classroom by moving the furniture, or move to a hallway/gym. In an auditorium, you could do a demonstration with a handful of students and focus on the visuals instead.

*Source Maryland Pedestrian and Bicycle Safety Education Program*

## Bicycle Rodeos

What?	A course made up of individual skill practice stations that teach bike safety checks, helmet fitting, and rules of the road through practice.
Who?	Elementary school: focus on basics, signage, rules of the road Middle & high school: include decision-making and lights Family: discuss family biking, modeling good behavior
When?	Incorporate into health fairs, back to school events, Walk and Bike to School days, and local events. Hold rodeos during school hours as part of a P.E. class or after school
How?	Bicycle rodeos reinforce safety practices and build confidence among young bicyclists by having them practice specific skills at stations in a safe, controlled, supportive environment. Students practice the rules of the road, have their helmet properly checked, and practice riding their bikes in a supervised bicycle course. In-school bicycle rodeos are best paired with in-class curriculum and are most effective when held over multiple days.
Equity + Accessibility	<ul style="list-style-type: none"><li>• Provide an introduction for first-time riders regardless of age</li><li>• Provide adaptive bicycles for students with physical challenges</li><li>• Have bicycles available for students to use, so those who don't own a bike can participate</li><li>• If students may bring their own bicycles, include a mandatory safety check station to ensure the bikes are safe to ride and an appropriate size</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Cornell University Organizer's Guide to Bicycle Rodeos - <a href="http://www.bike.cornell.edu/pdfs/Bike_Rodeo_404.2.pdf">www.bike.cornell.edu/pdfs/Bike_Rodeo_404.2.pdf</a></li><li>• Marin County Safe Routes to School Rodeo Manual - <a href="http://www.saferoutestoschools.org/pdfs/lessonplans/RodeoManualJune2006.pdf">www.saferoutestoschools.org/pdfs/lessonplans/RodeoManualJune2006.pdf</a></li><li>• Colorado Department of Transportation's Organizing a Bike Skills Rodeo - <a href="http://www.codot.gov/programs/bikeped/safe-routes/training-curriculum/training/bicycle-rodeo">www.codot.gov/programs/bikeped/safe-routes/training-curriculum/training/bicycle-rodeo</a></li><li>• Kidical Mass - <a href="http://www.kidicalmass.org/">www.kidicalmass.org/</a></li><li>• Cascade Bicycle Club Bike Rodeos: <a href="http://www.cascade.org/bike-rodeos">www.cascade.org/bike-rodeos</a></li></ul>

## Parent & Caregiver Education

What?	Providing transportation safety reminders, information about the benefits of walking, biking, skating, and carpooling and outreach for SRTS activities encourages parents and caregivers to stay safe, get involved, and be good role models for their students.
Who?	Parents and caregivers, primarily of elementary and middle school-age students
When?	Focus on the beginning of the school year and continue throughout the year
How?	<p>Teach parents and caregivers the safe behaviors that they can model when walking, biking, and driving. Provide information about the benefits of active transportation and share reminders about upcoming SRTS activities and events.</p> <p>Fliers, handouts, and social media posts are all good ways to reach out to parents and caregivers. Back-to-School night, parent/teacher conferences, and daylight savings time can also be a good time to provide safety reminders. See SchoolPool and Back to School Blitz for more suggestions to kick off the school year with outreach to parents.</p>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Connect families to free/low-cost local active transportation resources like Earn-a-Bike</li><li>• Provide materials in multiple languages</li><li>• Provide print materials for families with limited internet and/or computer access</li><li>• Provide tips for how families who are too far to walk and roll to get involved, such as designated park-and-walks or tracking weekend trips</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• King County Metro has SRTS outreach materials, including a brochure, tips sheet for safe walking, biking, carpooling, and driving, an outreach banner, and poster/flier. <a href="https://kingcounty.gov/depts/transportation/metro/travel-options/rideshare/programs/schoolpool/safe-routes.aspx">https://kingcounty.gov/depts/transportation/metro/travel-options/rideshare/programs/schoolpool/safe-routes.aspx</a></li><li>• Use SchoolPool to connect with other parents of kids who attend your child's school and carpool, walk, or bike together for the school commute.</li><li>• Spare the Air Youth Parent Champion Guidebook - <a href="http://www.sparetheairyouth.org/sites/all/themes/mtc/images/pdfs/STA_guidebookParents_FINAL_WEB.pdf">www.sparetheairyouth.org/sites/all/themes/mtc/images/pdfs/STA_guidebookParents_FINAL_WEB.pdf</a></li></ul>

## Encouragement

Encouragement activities are events about generating excitement and having fun walking, biking, bussing or carpooling. They are meant to inspire families and the school community to get involved with rewards for participation.

### SchoolPool

- What?** RideshareOnline's SchoolPool program is a secure, free way to help families share rides with other parents at the school. Families can log their trips using the SchoolPool calendar and track miles, cost savings and CO2 reductions.
- Who?** School administrators or principals at public or private elementary, middle or high schools in King County can set up a SchoolPool program for free.
- When?** The SchoolPool website is available year-round, but schools should consider promoting it at the beginning of the year as part of a Back to School Blitz or while promoting other encouragement activities.
- How?** Once the school is registered with SchoolPool, include a link to the website in all outreach materials. Parents can sign up and enter their travel preferences and privacy options, and SchoolPool provides ride matches to help families join a carpool, Walking School Bus or Bike.

Ridematching tips:

- To find the most ridematches, be flexible in your trip start and return times
- If no match appears, select Advanced Search and deselect Trip Times Should Match
- Sometimes individuals are more flexible on commute times when contacted

Each user has an individual account with a secure password. Users choose what information to share. Parents can choose to match only with other families from their child's SchoolPool network.

- Equity + Accessibility**
- Provide materials in multiple languages and provide translation services if needed
  - Remind parents that they don't need a car to sign up; they can find a walking or biking buddy or their child can be a passenger in a carpool
- Resource + Examples**
- [www.rideshareonline.com/Schoolpool/default.html](http://www.rideshareonline.com/Schoolpool/default.html)
  - [metro.kingcounty.gov/tops/van-car/programs/schoolpool/](http://metro.kingcounty.gov/tops/van-car/programs/schoolpool/)

## Back to School Blitz

What?	A focused period of outreach to families at the beginning of the school year to promote safety and encourage transportation options.
Who?	All ages, including families and students
When?	Beginning of the school year, as well as at the end of the year for families changing schools, such as 5th and 8th grade students
How?	<p>Families set transportation habits during the first few weeks of the school year and may not be aware of the multiple options available and default to driving to school in the family car. A “Back to School Blitz” focuses outreach right before school starts and at the beginning of the school year to promote walking, rolling, bussing, and carpooling for the school commute.</p> <p>Specific ideas for the Back to School Blitz include:</p> <ul style="list-style-type: none"><li>• Provide safety tip sheets, SRTS brochures, SchoolPool information, and other materials highlighted in Appendix A to promote transportation options.</li><li>• Hold community walks or rides to schools before the start of the school year to encourage families to test their route without the pressure of getting to class on time.</li><li>• Promote SchoolPool as a way of organizing carpools and walking/biking groups.</li><li>• Kick-off SRTS events with Walk to School Day in October (see Walk &amp; Roll to School Days)</li></ul>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Provide materials in multiple languages and provide translation services if needed</li><li>• Work with existing community groups to reach a wider audience</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Address the Behavior of Parents and Caregivers (SRTS) - <a href="https://apps.saferoutesinfo.org/lawenforcement/resources/parent_ed.cfm">apps.saferoutesinfo.org/lawenforcement/resources/parent_ed.cfm</a></li><li>• Let’s Move - <a href="http://www.letsmove.gov/">www.letsmove.gov/</a></li><li>• Spare the Air Youth Back to School Blitz - <a href="http://www.sparetheairyouth.org/back-school-blitz">www.sparetheairyouth.org/back-school-blitz</a></li></ul>

## Walk & Roll to School Days

What?	Events that encourage students and their families to try walking, rolling, bussing, or carpooling to school.
Who?	All ages
When?	International Walk to School Day in October and Bike to School Day in May, or promote monthly or weekly Walk & Roll to School Days, such as Walking Wednesdays or Feet First Fridays
How?	<p>Walk &amp; Roll to School Day events in October and May are great ways to get students and families to give walking or rolling to school a try. These events can be simple or elaborate. Either way, the camaraderie, safety tips, and additional support inspire people to try out a new way to get to school. Here are some tips for planning the day:</p> <ul style="list-style-type: none"><li>• Promote Walk &amp; Roll to School Day events through press releases, backpack/folder/electronic mail, newsletter articles, and posters.</li><li>• The event planning team can work with local businesses, such as grocery stores, to provide donations to students participating in events.</li><li>• A celebration at school can follow the morning event, such as an awards ceremony, lunch time party, or a raffle. Other fun events to incorporate can include Biking for Cocoa (provide hot chocolate for people biking), themed assemblies, or themed bike rides.</li><li>• Walk &amp; Roll to School Day could include opportunities for students to travel to school together, with trusted adults. See below for information about a Walking School Bus or Bike Train or for all students to participate through carpooling and bussing, especially if they <a href="#">live too far from school to walk or bike</a>.</li><li>• <a href="#">Register your event</a> with Walk &amp; Roll to School and to join thousands of others participating in the event around the country, tap into their resources, get free incentives, and publicize your hard work.</li></ul>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Park &amp; Walk program for families that live too far from school to walk or bike</li><li>• Collaborate with community based organizations to provide materials and staff or volunteers who speak multiple languages</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Seattle Department of Transportation Walk/Bike to School Day Blog - <a href="http://sdotblog.seattle.gov/2016/10/05/international-walkbike-to-school-day/">http://sdotblog.seattle.gov/2016/10/05/international-walkbike-to-school-day/</a></li><li>• International Walk to School - <a href="http://www.iwalktoschool.org/">www.iwalktoschool.org/</a></li><li>• Walk Bike to School - <a href="http://www.walkbiketoschool.org/">www.walkbiketoschool.org/</a></li><li>• MnDOT Walk and Bike to School Day Webinar - <a href="http://www.dot.state.mn.us/saferoutes/toolkit.html">www.dot.state.mn.us/saferoutes/toolkit.html</a></li><li>• Washington Safe Routes to School - <a href="http://www.saferouteswa.org/schools.aspx">www.saferouteswa.org/schools.aspx</a></li></ul>

## Walking School Bus or Bike Train

What?	A group of students walking or biking to school together with adult volunteers or paid staff.
Who?	Walking school bus: elementary school students and their parents, neighbors, and grandparents Bike train: middle and high school students
When?	Launch at a Back-to-School Night or Walk to School Day and build to weekly and daily routes, depending on interest and volunteer capacity
How?	<p>A walking school bus is a group of students with a trained adult volunteer who walk together to and/or from school. It can be as informal as two families taking turns walking their students to school, to a structured route and schedule with rotating adult leaders. The Bike Train is a variation of the School Bus where students ride their bikes to school with adult leaders.</p> <p>The group has an established route and picks up students from their homes or at designated stops, at pre-arranged times. The program can be a one-time event for Walk to School Day, or routes may operate daily, weekly or monthly.</p> <p>Provide basic bike safety training for participants (see Appendix B. Classroom Curriculum &amp; Skills Training), safety tips sheets for families (see Appendix A. Safety Tip Sheets), and designate an adult volunteer to lead and sweep.</p> <p>Cities and districts can support walking school buses by providing maps of where students live, so volunteers can form groups with nearby families, and suggested routes to school, so the group knows the best route to take. They can encourage families to sign up for SchoolPool to find matches for their walking or biking group.</p> <p>Start simple and make it fun!</p>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Provide outreach and safety materials in multiple languages</li><li>• Work with community groups to reach a wider volunteer audience, such as older adults</li><li>• Integrate with a Park &amp; Walk Program, so students who live far from school can participate</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• SchoolPool enables families to form walking, biking, and carpool groups - <a href="http://www.rideshareonline.com/Schoolpool/default.html">www.rideshareonline.com/Schoolpool/default.html</a></li><li>• The Walking School Bus Program: A Primer and First Steps - <a href="http://apps.saferoutesinfo.org/training/walking_school_bus/">http://apps.saferoutesinfo.org/training/walking_school_bus/</a></li><li>• Spare the Air Youth School Pool Guide - <a href="http://www.sparetheairyouth.org/schoolpool-guidebook/#vertical5">www.sparetheairyouth.org/schoolpool-guidebook/#vertical5</a></li><li>• Portland Bike Train - <a href="http://www.biketrainpdx.org/">www.biketrainpdx.org/</a></li><li>• El Monte Walking School Bus- <a href="http://www.amigosdelosrios.org/2017/08/walking-school-bus/">www.amigosdelosrios.org/2017/08/walking-school-bus/</a></li><li>• Cascade Bicycle Club Bike Train Tips <a href="https://www.cascade.org/learn-youth-programs-bike-school/bike-trains">https://www.cascade.org/learn-youth-programs-bike-school/bike-trains</a></li></ul>

## Competitions & Incentives

What?	Competitions that create awareness and excitement about transportation alternatives.
Who?	Elementary school: Focus on walking and small incentives for all participants Middle and high school: Provide larger raffle prizes, consider having clubs coordinate events
When?	Host competitions and incentive programs annually, possibly in conjunction with International Walk to School Day (October), Earth Day (April) or Bike Month (May).
How?	A competition where students track their trips encourages families to try alternatives to driving in the family car. This program can be implemented as an opt-in club, a classroom activity, or a collaborative school-wide event. Students track trips or their cumulative mileage made by walking, rolling, or carpools using SchoolPool, a classroom poster, or a punch card. Participants can earn prizes such as a Golden Sneaker Award, pizza/ice cream party, or raffle entry.
Equity + Accessibility	<ul style="list-style-type: none"><li>• Integrate with a Park &amp; Walk Program so students who live far from school can participate</li><li>• Address barriers to participation (lack of a bike, lock, helmet) before launching competitions</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• City of Seattle Department of Transportation SRTS Incentives- <a href="http://www.seattle.gov/transportation/saferoutes_incentives.htm">www.seattle.gov/transportation/saferoutes_incentives.htm</a></li><li>• National Center for Safe Routes to School Guide - <a href="http://guide.saferoutesinfo.org/encouragement/mileage_clubs_and_contests.cfm">guide.saferoutesinfo.org/encouragement/mileage_clubs_and_contests.cfm</a></li><li>• Fire Up Your Feet - <a href="http://www.fireupyourfeet.org/">www.fireupyourfeet.org/</a></li><li>• Marin County (CA) Pollution Punchcard - <a href="http://www.saferoutestoschools.org/SR2Simages/Pollution-Guide-09-2.pdf">www.saferoutestoschools.org/SR2Simages/Pollution-Guide-09-2.pdf</a></li><li>• Golden Sneaker Award Guidebook (Marin County, CA) - <a href="http://www.tam.ca.gov/Modules/ShowDocument.aspx?documentid=494">www.tam.ca.gov/Modules/ShowDocument.aspx?documentid=494</a></li></ul>



## Park & Walk Program

What?	A Park & Walk program encourages families to park several blocks from school and walk the rest of the way to school.
Who?	All ages, with a focus on elementary schools with larger numbers of students who live too far to conveniently walk or bike to school
When?	To begin, include with walk and roll to school days. As interest grows, Park & Walk programs can be held as often as capacity allows.
How?	<p>A Park &amp; Walk program identifies an off-site location for students to gather and walk to school. In situations where distance, safety concerns, or a disability prevents students from walking or biking to school, organizing a Park &amp; Walk Program can be an inclusive option so all students can participate in SRTS activities.</p> <p>The SRTS team should coordinate with nearby schools to identify parking lots that are typically vacant or unused during school drop-off and pick-up times. Parks, churches, or malls with large parking lots may be willing to share their space.</p> <p>Communities can use SchoolPool to organize a carpool, Walking School Bus or Bike Train from a nearby gathering place.</p>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Meet at a community gathering place such as a park or a church to make sure all community members feel comfortable participating.</li><li>• Publicize Park &amp; Walk opportunities whenever promoting bicycling or walking to school</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• National Center for Safe Routes to School Guide - <a href="http://guide.saferoutesinfo.org/encouragement/park_and_walk.cfm">http://guide.saferoutesinfo.org/encouragement/park_and_walk.cfm</a></li><li>• Park and Walk Guide (United Kingdom) - <a href="http://www.buckscc.gov.uk/bcc/transport/park_walk.page">www.buckscc.gov.uk/bcc/transport/park_walk.page</a></li><li>• Bus Stop &amp; Walk (Minneapolis, MN) - <a href="http://emss.mpls.k12.mn.us/bus_stop_walk">http://emss.mpls.k12.mn.us/bus_stop_walk</a></li></ul>

## Dump the Pump Carpool Day

**What?** Dump the Pump Carpool Day encourages families to carpool or try an alternative way of getting to school rather than individual families driving the family vehicle.

**Who?** All ages, including families and students

**When?** To begin, include with Walk & Roll to School days.

Led by the American Public Transportation Association, transit agencies celebrate National Dump the Pump Day typically during the second week of June. This may be too late in the academic calendar year to occur while school is in session.

**How?** Dump the Pump Carpool days can occur with the national non-school related event in June, if school is still in session, or as a complement to Walk & Roll to School days for students who may experience obstacles to walking or rolling to school.

- Promote Dump the Pump Carpool Day through press releases, backpack/folder/electronic mail, newsletter articles and posters, including instructions on connecting with nearby families and forming carpools using SchoolPool
  - The event planning team can work with local businesses, such as grocery stores, to provide donations to students participating in events
  - A morning reward such as “Cocoa for Carpoolers” can be ready for those who have arrived by carpool
  - Hold a Carpool Kick Off table at a school event, PTA meeting, or other parent-attended event to connect families in neighborhoods in person, rather than relying solely on an internet platform.
  - Collaborate with community based organizations to provide materials and staff or volunteers who speak multiple languages
- Equity + Accessibility**
- King County Metro Carpool Safety Tip Sheets (Appendix A)
  - American Public Transportation Association’s Dump the Pump online toolkit - [www.apta.com/members/memberprogramsandservices/advocacyandoutreachtools/dumpthepump/Pages/toolkit.aspx](http://www.apta.com/members/memberprogramsandservices/advocacyandoutreachtools/dumpthepump/Pages/toolkit.aspx)
  - Spare the Air Youth SchoolPool: carpool materials available in English, Spanish and Chinese - [www.sparetheairyouth.org/carpooling](http://www.sparetheairyouth.org/carpooling)
  - Safe Routes to School Marin County Carpool Promotion materials - [www.saferoutestoschools.org/toolkit.html](http://www.saferoutestoschools.org/toolkit.html)
  - Alameda County Safe Routes to School Cocoa for Carpools - <http://alamedacountysr2s.org/plan-an-event/cocoa-for-carpools/>
- Resource + Examples**

## Bike Repairs & Earn-A-Bike Program

What?	Bike Repair Programs teach students how to work on bikes. Earn-a-Bike Programs allow students to keep the bike they work on.
Who?	Middle and high school students, potentially through a vocational education or technical education program
When?	Can be ongoing throughout the school year.
How?	Learning how to repair your own bicycle is an important part of building confidence and knowledge. Up to 50 percent of students do not ride their bikes due to minor issues, such as a flat tire or worn out brakes. Through Bike Repair and Earn-a-Bike Programs, students learn about bike maintenance, build teamwork skills, problem solving, and make friends. Earn-a-Bike Programs provide students with a bike who may not otherwise have access to this inexpensive, fun mode of transportation.
Equity + Accessibility	<ul style="list-style-type: none"><li>• Can be integrated into an after-school club.</li><li>• Seek bicycle donations, so that students don't need to own a bicycle to participate.</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Tips for Involving Bike Shops in SRTS - <a href="http://www.saferoutespartnership.org/sites/default/files/pdf/BikeShopsWebinar-TipSheet_FINAL.pdf">http://www.saferoutespartnership.org/sites/default/files/pdf/BikeShopsWebinar-TipSheet_FINAL.pdf</a></li><li>• BikeMobile is a mobile bicycle repair clinic that offers schools, community organizations, and public events in Alameda County, CA - <a href="http://www.bike-mobile.org/">http://www.bike-mobile.org/</a></li><li>• Trips for Kids Earn-a-Bike program provides complete hands-on lessons in bike mechanics and bike safety, while gaining credits towards their own bike, parts and accessories. - <a href="http://www.tripsforkidsmarin.org/earn-abike/">www.tripsforkidsmarin.org/earn-abike/</a></li><li>• Bike Works (Seattle) <a href="https://bikeworks.org/bike-shop/">https://bikeworks.org/bike-shop/</a></li><li>• Community Cycling Center's Bike Club (Portland, OR) - <a href="http://www.communitycyclingcenter.org/community/earna-bike/">www.communitycyclingcenter.org/community/earna-bike/</a></li><li>• Bikes Not Bombs (Boston) - <a href="http://www.bikesnotbombs.org/">www.bikesnotbombs.org/</a></li></ul>

## Promotional Competitions

What?	Promotional competitions are fun ways for students to be creative, promote walking and biking to school and create content for SRTS outreach.
Who?	Elementary school: poster, essay, or drawing contests Middle and high school: video contests
When?	Promotional competitions can be one-time competitions or on-going throughout the year.
How?	<p>Student promotional competitions (such as poster, essay, or video contests) showcase local talent while teaching traffic safety principles. Students create art or other content about why they like to walk, bike, skate, or carpool. An entire classroom can participate in this activity and learn about the benefits of active transportation and reducing vehicle trips.</p> <p>Social media campaigns are another fun way to engage with youth. A hashtag campaign is a good communications strategy that encourages participants to take photos of themselves walking, rolling, carpooling, or taking transit and connect with others doing the same.</p> <p>Promotional competitions can be creative and tailored to the interests of the students and school staff. Prizes and incentives should be provided and can include gift cards to local businesses, bike lights, or movie tickets.</p>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Host a competition for homeroom or media class.</li><li>• Provide materials and support to students.</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Spare the Air Youth Challenges &amp; Contests - <a href="http://www.sparetheairyouth.org/challenges-contests">http://www.sparetheairyouth.org/challenges-contests</a></li><li>• Davis, CA holds an annual Traffic Safety Poster Contest with an art opening to celebrate. - <a href="http://www.cityofdavis.org/city-hall/public-works/bike-pedestrian-program/street-smarts">www.cityofdavis.org/city-hall/public-works/bike-pedestrian-program/street-smarts</a></li><li>• Tacoma, WA partnered with school artists on a “35 Ways to Safer Neighborhood Streets” book.- <a href="http://cms.cityoftacoma.org/Planning/Hilltop-MLK%20Subarea/McCarver%20Book.pdf">http://cms.cityoftacoma.org/Planning/Hilltop-MLK%20Subarea/McCarver%20Book.pdf</a></li><li>• Minnesota Department of Transportation annual poster contest: <a href="http://www.dot.state.mn.us/mnsaferoutes/programs/poster_contest.html">www.dot.state.mn.us/mnsaferoutes/programs/poster_contest.html</a></li></ul>

## Student Clubs and Champions

What?	Student clubs can include older students and take many forms, depending on the interests of students and staff.
Who?	Middle and high school clubs, typically Green Teams and Environmental or Bike Clubs
When?	Launch student clubs at the beginning of the school year and continue throughout the year.
How?	<p>An after-school club can address different themes, including bike repair, cycling, environmental issues (green teams), and community/civic engagement. Clubs allow students to work together on issues they care about and often result in excellent ideas and successful projects.</p> <p>For example, students develop outreach materials and content for other programs, such as Walk to School Day or a School Safety Campaign or older students teach younger students in bike maintenance and skills.</p>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Promote clubs to female-identifying and LGBTQ students and consider hosting clubs or events just for those students.</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Marin County SRTS's Teens Go Green program partner with teens interested in the environment to bring reduced CO2 and healthy lifestyles to their schools. - <a href="http://www.saferoutestoschools.org/teensgogreen.html">www.saferoutestoschools.org/teensgogreen.html</a></li><li>• Major Taylor Project - <a href="http://www.cascade.org/learn/major-taylor-project">www.cascade.org/learn/major-taylor-project</a></li></ul>

## High School Parking Permit Program

What?	Implement a permit parking program at the high school to encourage carpooling, or other modes of transportation such as bussing, walking and rolling to and from school.
Who?	High school students who drive themselves to school
When?	On-going application and permitting process or at the beginning of each school year or term.
How?	Implement a program where a parking permit is required in various ways: <ul style="list-style-type: none"><li>• Require a carpool permit and provide preferential student parking spaces for carpool permit holders, only. Establish rules and procedures for violations.</li><li>• Require a parking permit for all students who wish to drive themselves</li><li>• Consider a parking permit fee for permits that support the supervision of parking lots, updates, maintenance and costs related to parking facilities and permitting processes.</li><li>• Consider the 6 month state requirement for new young drivers to abstain from carrying passengers, with exception of family members.</li></ul>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Consider the equity implications of charging for parking and which students are most disadvantaged by such policy</li><li>• Provide materials and support to students</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Interlake High School parking permit application process - <a href="https://www.bsd405.org/interlake/2017/06/new-parking-permit-application-process/">https://www.bsd405.org/interlake/2017/06/new-parking-permit-application-process/</a></li><li>• Newport High School parking permit program - <a href="https://www.bsd405.org/nhs/resources/parking-transportation/">https://www.bsd405.org/nhs/resources/parking-transportation/</a></li></ul>

## Enforcement

Enforcement activities aim to deter unsafe behavior and ensure everyone shares the road around schools. Safer traffic conditions make students and families more comfortable walking and rolling to school.

### Crossing Guards

What?	Crossing guards assist students crossing streets and remind drivers to comply with traffic laws near schools. Crossing guards have more authority than volunteer youth safety patrols.
Who?	Crossing guards at elementary schools; middle school students can act as student valets at elementary schools.
When?	Launch at the beginning of the year and continue throughout the school year.
How?	
Equity + Accessibility	<ul style="list-style-type: none"><li>• Provide a stipend or hourly pay and recruit members of the community when possible.</li><li>• Prioritize crossing guards at locations with a history of crashes.</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Crossing Guard Program Guidelines (SRTS) - <a href="http://www.saferoutesinfo.org/guide/crossing_guard/index.cfm">www.saferoutesinfo.org/guide/crossing_guard/index.cfm</a></li><li>• School Zone Safety Kit (Washington Traffic Safety Commission) - <a href="http://www.seattle.gov/transportation/docs/srts/School-Zone-Safety-Kit.pdf">www.seattle.gov/transportation/docs/srts/School-Zone-Safety-Kit.pdf</a></li><li>• School Walk and Bike Routes (WADOT) - <a href="http://www.wtsc.wa.gov/wp-content/uploads/dlm_uploads/2014/09/">www.wtsc.wa.gov/wp-content/uploads/dlm_uploads/2014/09/</a></li></ul>

## School Safety Campaign

What?	A campaign to publicize traffic safety issues around schools and promote safe walking, biking, and driving for students, parents, and others.
Who?	Focused on drivers at schools and people passing through the area. Focus attention to where speeding is an issue and near elementary schools.
When?	Campaigns should be held annually or semi-annually, when students return to school in the fall, when the weather gets warmer, and/or when daylight saving time ends.
How?	<p>Conduct a School Safety Campaign to focus attention on people obeying traffic laws near schools at key times, such as the beginning of the school year and during daylight savings changes.</p> <p>Use media —such as posters, business window stickers, yard signs, or street banners—to remind drivers to slow down and use caution in school zones.</p> <p>These campaigns build awareness of students walking and biking to school and encourage safe driving behavior, as well as address other specific hazards or behaviors, such as school bus safety, distracted driving. They also guide parent drop-off and pick-up behavior.</p> <p>Collaboration between the police department and the school district can expand the reach of the campaign.</p>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Provide materials in multiple languages</li><li>• Work with existing community groups to reach a wider audience</li><li>• Focus on areas with a history of crashes or demonstrated speeding issues</li><li>• Ensure that the benefits and burdens of additional enforcement are spread throughout the community</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• City of Tacoma’s “This Lane is Your Lane” campaign about traffic laws: <a href="http://www.cityoftacoma.org/cms/One.aspx?portalId=169&amp;pageId=72640">http://www.cityoftacoma.org/cms/One.aspx?portalId=169&amp;pageId=72640</a></li><li>• Review of Bicycle Safety Campaigns - <a href="http://www.issuelab.org/resource/bicycle_safety_campaign_review">www.issuelab.org/resource/bicycle_safety_campaign_review</a></li><li>• “Every Step Counts” Marketing Materials - <a href="http://www.saferoutesinfo.org/program-tools/every-step-countsmarketing-materials">www.saferoutesinfo.org/program-tools/every-step-countsmarketing-materials</a></li><li>• Street Smarts Program (San Jose, CA) - <a href="http://www.getstreetsmarts.org/">www.getstreetsmarts.org/</a></li><li>• Minnesota Department of Transportation’s Share the Road - <a href="http://www.dot.state.mn.us/sharetheroad/">www.dot.state.mn.us/sharetheroad/</a></li><li>• National Center for SRTS’s Role of the Enforcement Officer - <a href="http://www.saferoutesinfo.org/guide/enforcement/role_of_the_enforcement_officer.cfm">www.saferoutesinfo.org/guide/enforcement/role_of_the_enforcement_officer.cfm</a></li><li>• Greenville, NC, participated in a distracted driving research project, neighborhood speed watch program, installed speed feedback signs, and increased law enforcement before and after school. - <a href="http://www.saferoutesinfo.org/sites/default/files/resources/srts_gettingresults_drivingbehavior_0.pdf">www.saferoutesinfo.org/sites/default/files/resources/srts_gettingresults_drivingbehavior_0.pdf</a></li><li>• Pasadena, CA School Safety Campaign - <a href="http://www.altaplanning.com/projects/pasadena-safe-routes-toschool-program/">www.altaplanning.com/projects/pasadena-safe-routes-toschool-program/</a></li></ul>



## Engineering /Infrastructure

Building a better environment for walking and rolling is a critical component of SRTS programs, to enable families to participate in SRTS activities and events. Safer environments for walking and rolling improve safety for all travelers, whether walking, rolling, carpooling, bussing or arriving as an individual student in a family vehicle. Improvements often address needed sidewalks, crossings, and bike routes and facilities; clarify student drop-off zones and bus loading zones; and improve circulation patterns on the school grounds or neighboring city streets.

### Walk Audits & Improvement Plans

What?	An on-the-ground assessment of the school and surrounding area, resulting in an improvement plan that identifies problem areas and recommends possible infrastructure and programmatic solutions.
Who?	All schools; focus efforts at schools that lack infrastructure and that have higher rates of crashes
When?	Walk audits are a good way to kick off SRTS programs, gather interested parents, and discuss programs at the start of the school year but can be held year-round.
How?	<p>A school walk audit is an assessment of the walking and biking conditions and circulation patterns for all transportation modes around the school area.</p> <p>At an audit, SRTS staff document conditions that may discourage walking and biking to school, and work with the community to identify solutions to improve those conditions.</p> <p>Stakeholders should come together to observe drop-off or pick-up and assess traffic facilities and operations (e.g. presence of designated student loading areas for family cars and school busses).</p> <p>The behavior of students, parents, and motorists should also be documented where it could contribute to unsafe conditions for people biking, walking, taking transit, or carpooling (e.g. speeding, jaywalking, failure to yield to pedestrians).</p> <p>An assessment or inventory held as part of the audit should confirm the built environment around a school (e.g. streets, sidewalks, pathways, crosswalks and intersections, bike routes, traffic controls).</p> <p>Information from the walk audits can be used when identifying suggested routes for walking route maps.</p> <p>School policies can improve safety for all families accessing schools. Because school traffic is focused narrowly around the bell schedule, parents driving children to school cause congestion and safety hazards. Inefficient drop-offs and pick-ups can also increase local air pollution and strain relationships with adjacent residents and community members.</p> <p>Policy solutions to improving student loading include the following:</p> <ul style="list-style-type: none"><li>• <b>Valet Drop-offs</b> organize adults (school staff or parent volunteers) or older students to assist younger students getting in and out of vehicles, improving traffic flow by enabling parents to stay in their vehicles.</li><li>• <b>Platooning Drop-off/Pick-up Systems</b> have several vehicles unload or load simultaneously, then proceed to the exit. This system eliminates vehicles pulling in and out of the loading zone, because if one family is faster than the one in front, they must wait for the lead vehicle to finish unloading/ loading,</li><li>• <b>Carpool Priority Parking and Load Zones</b> promote carpooling, which limits demand on school facilities and on the local roadways. For older students and faculty/staff, award priority parking permits to those who commit to carpooling.</li></ul>

Equity +  
Accessibility

- Provide translators for parents at walk audits
- Bring recommendations to neighborhood meetings and community groups for input
- Send maps home with students to allow parents to provide input about unsafe routes
- Facilitating good circulation helps students who are walking, biking, and skating

Resource +  
Examples

- SRTS Guide: How to Conduct Walking and Bicycling Audits - [http://guide.saferoutesinfo.org/engineering/walking\\_and\\_bicycling\\_audits.cfm](http://guide.saferoutesinfo.org/engineering/walking_and_bicycling_audits.cfm)
- Spare the Air Youth Walking & Bicycling Audit Guide - [www.sparetheairyouth.org/walking-bicycling-audits/](http://www.sparetheairyouth.org/walking-bicycling-audits/)
- ITE Walk Audits - <http://library.ite.org/pub/e265f845-2354-d714-511f-81ff4a1dbc7b> and Strategies to Improve Traffic Operations and Safety: <http://library.ite.org/pub/e266089a-2354-d714-5105-6fa893ce75d4>
- SRTS Guide: Student Drop-off and Pick-up Tools - [http://guide.saferoutesinfo.org/dropoff\\_pickup/student\\_drop-off\\_and\\_pick-up\\_tools.cfm](http://guide.saferoutesinfo.org/dropoff_pickup/student_drop-off_and_pick-up_tools.cfm)
- Spare the Air Youth School Site Transportation Policies - [www.sparetheairyouth.org/school-sitetransportation-policies](http://www.sparetheairyouth.org/school-sitetransportation-policies)

## Suggested Route Maps

What?	Suggested route maps promote active transportation by showing parents and students the best ways to get to and from school.
Who?	All; elementary school maps can focus on the 1-mile radius from school, while middle and high school maps can have a wider radius. Tips and resources should be tailored to the age of students.
When?	Distribute maps when students and families are adjusting to new habits, such as at back-to-school events, following winter/spring break, and as weather gets warmer.
How?	<p>Suggested route maps help families choose the best route for walking and biking to school.</p> <p>Maps should show stop signs, signals, crosswalks, sidewalks, bikeways, paths/trails, school entrances, bike parking, and crossing guard locations around a school.</p> <p>Maps may also show transit routes and stops, school enrollment areas, pick-up/drop-off zones, and important destinations, such as community centers and parks.</p> <p>Other things to consider include recommended routes, good walking/biking routes, travel times (e.g., 1/2 mile = 10 minutes), and hazardous locations.</p> <p>The back of the maps can include safety tips for walking, biking, skating, and driving, plus additional local resources or information.</p> <p><b>School districts in Washington State are required to establish walk areas for all school buildings where students are enrolled, attend class, and transportation is provided (WAC 392- 141-340).</b></p>

Equity +  
Accessibility

- Translate maps into multiple languages
- Make sure to include routes to areas with multi-family housing
- Include Park & Walk locations
- Consider including other destinations such as community centers, grocers, libraries, etc., in order to increase the usefulness of the maps to more communities

Resource +  
Examples

- National Center for Safe Routes to School's Map-a-Route Tool - <http://maps.walkbiketoschool.org/>
- Pico Rivera, CA - [www.pico-rivera.org/depts/ced/planning/srts/schoolmaps.asp](http://www.pico-rivera.org/depts/ced/planning/srts/schoolmaps.asp)
- Santa Clarita, CA: <http://www.santa-clarita.com/city-hall/departments/public-works/traffic-transportationplanning/traffic-information-program-series-tips/suggested-routes-to-school>
- Minnesota Walking Route Map webinar - [www.dot.state.mn.us/mnsaferoutes/resources/mapping.html](http://www.dot.state.mn.us/mnsaferoutes/resources/mapping.html)

# Evaluation

## Student Hand Tallies

- What?** Student hand tallies collect information on how students traveled to and from school over a 2-3 day period to track mode split and to determine the program impact over time.
- Who?** All; focus on elementary school
- When?** Launch at the beginning of the year and continue throughout the school year. Collect data on a Tuesday, Wednesday, Thursday in September or October and April or May. Do not collect data on special event days or late start days.
- How?** Measure and monitor progress toward a shared community goal and constantly improve program activities and messaging to better reach audiences.
- You can use student hand tallies to determine how students travel to and from school. They are an important baseline for mode split. They can also be used to track progress toward mode shift goals and evaluate the effectiveness of the SRTS program from year to year.
- Hand tallies take about three minutes per classroom to conduct and can be done on paper or through an app.
- Teachers (or other adults) ask students to raise their hands in response to the mode of transportation that is read aloud from a list (carpool, bicycle, drive alone, etc.).
- The tally taker also records the weather and any special events occurring that day.
- Hand tallies are generally required of state and federal SRTS grant recipients. Enter data into the National Center for SRTS's database to easily track data over time.
- Equity + Accessibility**
- Include as many classrooms as possible, with at least two classes per grade, per school
- Resource + Examples**
- "Ways to Collect Information" - [http://guide.saferoutesinfo.org/evaluation/ways\\_to\\_collect\\_information.cfm](http://guide.saferoutesinfo.org/evaluation/ways_to_collect_information.cfm)
  - Student Arrival/Departure Hand Tally Form - [www.saferoutesinfo.org/program-tools/evaluation-studentclass-travel-tally](http://www.saferoutesinfo.org/program-tools/evaluation-studentclass-travel-tally)
  - National Center for SRTS Data Collection System - [www.saferoutesdata.org/](http://www.saferoutesdata.org/)
  - Spare the Air Youth Student Evaluation Guidebook - [www.sparetheairyouth.org/student-hand-tallies/](http://www.sparetheairyouth.org/student-hand-tallies/)

## Parent Surveys

What?	Parent surveys provide information on student travel behavior, as well as parents' attitudes about walking and rolling.
Who?	Parents of elementary and middle school students, primarily, as older students have more input into their commute mode
When?	Survey parents at least every 3 years to understand parents' concerns while minimizing survey fatigue.
How?	<p>Parent surveys are a good tool to understand why families and/or students choose certain modes to get to and from school.</p> <p>Parent surveys go beyond daily transportation patterns and ask parents about their attitudes and concerns around walking and biking to school, as well as whether they think walking and biking are fun, healthy, safe, or something they want to do more often.</p> <p>A popular method to distribute parent surveys include:</p> <ul style="list-style-type: none"><li>• Via email for online surveys</li><li>• Sending fliers home as "backpack mail" with students</li><li>• Depending on the level of parent engagement, student reminders, cross-promotions at school events</li></ul>
Equity + Accessibility	<p>Incentives may be needed to encourage participation.</p> <p>Provide surveys in multiple languages and offer both online and hard copy versions</p>
Resource + Examples	<ul style="list-style-type: none"><li>• The National Center for SRTS provides forms in various languages, data collection guidelines, and the data center - <a href="http://www.saferoutesinfo.org/program-tools/evaluation-parent-survey">www.saferoutesinfo.org/program-tools/evaluation-parent-survey</a></li><li>• The Portland, OR, SRTS program shares their robust parent survey evaluation and post survey results online. - <a href="http://www.portlandoregon.gov/transportation/index.cfm?login=1&amp;a=480345">www.portlandoregon.gov/transportation/index.cfm?login=1&amp;a=480345</a></li><li>• Spare the Air Youth Evaluation Toolkit- <a href="http://www.sparetheairyouth.org/parent-surveys/">www.sparetheairyouth.org/parent-surveys/</a></li></ul>

## Event Tracking & Evaluation

What?	Tracking and evaluating SRTS events can help the SRTS team focus on the most efficient activities and events.
Who?	Event participants: students, parents, teachers, and staff
When?	Continuously track events and survey event participants at the end of each event or activity
How?	<p>Track events by recording what events are being held at each school, how many people participated in a specific event or activity, what was the level of interests students and parents had in the event, and what was the reach of the event.</p> <ul style="list-style-type: none"><li>• Indicate who was invited to participate in the activity (e.g. all fourth grade students, or two classrooms of second grade students).</li><li>• When possible, keep track of how many individuals participated in an event. For school-wide events, you can keep track of how many stickers/pencils/ chocolates you hand out to students, assign a volunteer to keep a tally, or have students place stickers on a poster to show how they got to school.</li><li>• Track the number of classes offered and total students taught for each educational offering.</li><li>• Make it clear whether the school was able to participate in the activity. Some SRTS activities (i.e. bike rodeos) do not have funding for every school to participate.</li></ul> <p>Evaluate events to determine if they affected students' travel habits or interest in walking or bicycling.</p> <ul style="list-style-type: none"><li>• Ask participants to complete a short survey after the event, asking how participants heard about the event, their typical travel modes, ways to improve the event, and attitudes about walking/biking before and after the event.</li><li>• Record information such as cost, promotion, and general opinions related to planning and implementing the event.</li><li>• Consider offering an incentive or raffle drawing for people taking your survey to encourage participation.</li><li>• Ask for open-ended responses that can be used as supportive quotes.</li><li>• Have school staff encourage and remind parents to take surveys.</li><li>• Use existing communication channels such as parent newsletters, list serves, weekly folders in students' backpacks to distribute or remind parents to take surveys.</li></ul>
Equity + Accessibility	<ul style="list-style-type: none"><li>• Provide translators for parents to speak with at events.</li><li>• Incentives may be needed to encourage participation.</li><li>• Provide surveys in multiple languages and offer both online and hard copy versions</li></ul>
Resource + Examples	<ul style="list-style-type: none"><li>• Spare the Air Youth Evaluation Toolkit- <a href="http://www.sparetheairyouth.org/parent-surveys/">www.sparetheairyouth.org/parent-surveys/</a></li><li>• The National Center for SRTS evaluation web guide - <a href="http://guide.saferoutesinfo.org/evaluation/">http://guide.saferoutesinfo.org/evaluation/</a></li><li>• SRTS National Partnership Local School Project Evaluation Handbook - <a href="http://www.saferoutespartnership.org/sites/default/files/pdf/SRTS.Eval.Handbook-Final_9_08.pdf">www.saferoutespartnership.org/sites/default/files/pdf/SRTS.Eval.Handbook-Final_9_08.pdf</a></li></ul>