

TEACH



King County

Programs for Educators

2008–2009 School Year Edition

This material will be provided in alternate formats
upon request by contacting:

King County Solid Waste Division

206-296-4466

1-800-325-6165, ext. 6-4466

TTY Relay: 711

kingcounty.gov/solidwaste



September 2008

Dear King County Educators:

I am pleased to introduce the *King County Programs for Educators Guide*.

This annual guide has been updated to bring you the latest programs, materials, and funding sources available from the county through its various agencies. It features numerous offerings, presenting teachers and students with a wide variety of topics that range from disaster and emergency preparedness to natural resource stewardship. These and other programs listed in the guide deal with issues that shape and influence our quality of life in King County now and for the future.

As King County Executive, I have worked to make education a top priority for my administration. Our strength, vitality and quality of life rest on providing our residents access to educational avenues necessary to succeed and prosper. I hope this guide will be a valuable resource in your vital work as educators.

Sincerely,

A handwritten signature in black ink, appearing to read "Ron Sims". The signature is fluid and cursive, with a large, stylized initial "R" that loops around the first part of the name.

Ron Sims
King County Executive

Programs for Educators Directory

2008-2009 School Year Edition

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The 2008-2009 King County Programs for Educators Directory can be found on the King County Web site in PDF format at kingcounty.gov/solidwste (select *Education & Schools Assistance*)

NOTE: All programs are provided free of charge, unless otherwise noted.
Please contact program provider for details.

Arts, Culture and Heritage

Grants

Heritage Cultural Education Program – Local History Education Grants

4Culture

Grades K-12 • Each year funding opportunities are available through a competitive application process to assist local history museums, heritage organizations, historians, and heritage specialists in developing innovation projects in collaboration with King County public schools. Successful proposals will involve students and teachers in documenting, interpreting, and preserving county and community heritage resources. Proposals should address the state assessment standards for social studies and involve geographic, ethnic, or thematic aspects of King County's heritage.

Visit 4culture.org/heritage/funding/education/index.htm, or contact Patricia Filer at 206-296-4819 or patricia.filer@4culture.org.

Arts Projects Program – Arts Projects Award

4Culture

All ages • The Arts Projects Program provides financial support for new and continuing arts projects in all artistic disciplines by individual artists as well as both small and large organizations. Lodging Tax revenues in King County provide funding for these awards.

Eligibility and program requirements are as follows:

- King County-based artists and groups creating new work and/or organizing projects in any discipline are eligible to apply.
- Applications are available annually in late winter with a spring deadline. Check the website or subscribe to our newsletter for notification. See 4culture.org.
- Awards generally range from \$1,000 to \$8,000.
- Projects must offer some public benefit in King County such as performances, exhibitions, publications, screenings, open studios or presentations.
- Organizations currently receiving Sustained Support from *4Culture* are not eligible for the Arts Projects funding.

For groups, contact Doreen Mitchum at 206-296-7579 or doreen.mitchum@4culture.org.

For individuals, contact Heather Dwyer at 206-296-8676 or heather.dwyer@4culture.org.

Special Projects Program – Heritage Project Grants

4Culture

All ages • Annual competitive grants are awarded to local history museums, heritage organizations, historians, and heritage specialists for special initiatives involving or serving youth in the documentation, interpretation, and preservation of county and community heritage

resources. Projects may involve, but are not limited to museum exhibits and collections, publications, oral or video history documentation, historic or archaeological resource preservation, and community history research.

Contact Eric Taylor at 206-296-8688 or eric.taylor@4culture.org.

Internet Resources

Heritage Publications

4Culture

All ages • A series of downloadable historical bibliographies on Seattle and King County's geographic, ethnic, and thematic history as well as papers on technical and education-related topics, including heritage curriculum and historical research resources, are available at 4culture.org/heritage/resources/index.htm.

Teacher Workshops

Cultural Diversity Program

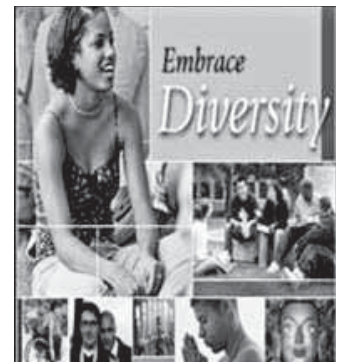
Washington State University Extension Service/King County Department of Natural Resources and Parks

All ages • This program operates year round and includes development of personal awareness and information necessary for a person to engage in positive and productive relationships with culturally diverse individuals or groups. Workshops present a variety of innovative educational opportunities that contribute to life-long learning for individuals and the success of their communities. The following modules are included in the program:

- Cultural Foundation develops elements of personal awareness necessary to engage in positive and productive relationships with culturally diverse individuals or groups.
- Cultural Diversity focuses on understanding the differences and similarities that exist among individuals, cultural groups, and their activities. This module discusses language, communication and conflict resolution.
- A Lesson of Culture provides a unique opportunity for youth and youth providers to learn how to create a multicultural program. This module includes international food, education, music, and art.
- Volunteerism provides strategies to recruit minority volunteers.

All modules encourage individuals to develop a personal commitment with diversity that will create an environment that promotes and supports growth. Workshops are one to three hours in length and are available upon request.

Contact Sonia G. Morales at 206-205-3133 or sonia.morales@kingcounty.gov or sgmorales@wsu.edu.



Community

Action Projects

Community Gardening Program

Marymoor Community Gardens in cooperation with King County Parks

All ages • Learn how to garden organically at Marymoor Park. Participating gardeners grow their own vegetables and flowers year round in ten-by-forty-foot rental plots, and operate a Food Bank garden to donate fresh organic produce to Hopelink in Redmond. Applications to participate in this gardening community are available in early spring, with spaces filling quickly. School groups can make a school-year commitment to tend a garden plot, conduct special garden projects, or provide volunteer assistance for the Food Bank garden. Periodically, experts provide educational presentations on composting, soil improvement, crop rotation, organic pest control, and other garden related topics.

Contact the Marymoor Community Gardeners Association at marymoorgarden@yahoo.com or visit marymoorgarden.org.

Tenth Annual Dr. Martin Luther King, Jr. Essay Contest

King County Department of Executive Services, Civil Rights Commission

Grade 8 • The annual Dr. Martin Luther King, Jr. Essay Contest is open to all eighth-grade students attending public and private schools in King County. The purpose of the essay contest, now in its tenth year, is to encourage students to think critically about Dr. King's legacy of peace and justice. The essay theme this year is "Breaking Barriers." Rules for entry are as follows:

- The essay must be between 750 and 1,000 words and must be typed and doubled spaced on white 8.5" by 11" paper.
- Contestants must submit **one typed original and one typed copy** of the essay by mail.
- The name, address, home phone number, e-mail address, school, grade and age of student author must be submitted on a cover page accompanying the essay. **Do not place your name on any other page.**
- All essays must be in English, include a bibliography, and **utilize at least one book source and no more than one web site source.**
- All essays will be judged on the author's knowledge of Dr. King and his work in the Civil Rights Movement, originality of ideas, development of point of view, insight into the essay theme, clarity of expression, organization, and grammar.
- All essays submitted become the property of the commission and may be displayed on county web

pages, in county and local publications, and in the King County tunnel. Submitted essays will not be returned.

Prizes: First Prize: \$100.00, Second Prize: \$75.00, Third Prize: \$50.00. All essays must be postmarked by Friday, November 28, 2008 and mailed to King County Civil Rights Commission, 400 Yesler Way, Room 260, Seattle, WA 98104. Essays postmarked after that date will not be considered, nor returned.

Winners will be notified by mail. Awards will be presented to the winners at the Annual King County Dr. Martin Luther King Jr. Day Celebration in January 2009 in downtown Seattle. For more information, contact Commission Administrator, Paula Harris-White at 206-296-8610 or paula.harris-white@kingcounty.gov.

Classroom Programs

Civil Rights Education

King County Department of Executive Services, Office of Civil Rights

Grades 11, 12, others • Students approaching graduation may be ready to look for a job or rent an apartment. To help students with these decisions, teachers can schedule a presentation by King County's Office of Civil Rights (OCR). Speakers describe OCR's work and services, and talk about basic civil rights protection, fair housing, fair employment practices, and fair treatment in stores, restaurants and other public places. The presentations are geared to upper high school grade levels, but can be tailored to other audiences. They take from 30 to 50 minutes, but can be expanded. The topics apply to Washington's Essential Academic Learning Requirements found in the Social Studies categories of Civics and History.

OCR publishes an agency brochure, an annual report, fact sheets and many fair housing publications that are available upon request or on our Web site by visiting kingcounty.gov/civilrights/. Printed materials are available in alternate formats.

Contact Rose Dotson at 206-296-7592, 206-296-7596 TTY or rose.dotson@kingcounty.gov.

King County Work Training Program

King County Department of Community and Human Services, Community Services Division

Grades 9-12 • The Work Training Program provides education, employment and training services for hard-to-serve youth in King County outside the city of Seattle. Youth must be low-income, high school dropouts or at risk of dropping out of school, and between the ages of 16 and 21. Thirty-minute classroom presentations are



available on pre-employment training - how to look for a job, prepare a resume and complete a work application. Career exploration and labor market information are available. Services include case management, GED attainment, basic skills remediation, credit recovery, life skills, parenting, counseling, and employment and training services.

Contact George Dignan at 206-296-5220 or george.dignan@kingcounty.gov.

Other Resources

King County's Fiber Optic Institutional Network (I-Net)

King County Department of Executive Services, Office of Information Resource Management

King County's fiber optic institutional network (I-Net) currently serves 219 of the original 302 sites built within King County, including school districts, suburban cities and some King County agencies as well as a group of

content providers, including museums, King County libraries, Woodland Park Zoo, Seattle Center, Seattle Art Museum, and Benaroya Hall. Many cities, King County regional and branch libraries and King County departments are already using I-Net and its network services.

More than eight school districts, plus eleven K-20 Education Network sites are now using I-Net as their primary internet and network connectivity requirements. Participants are able to contact each other via data or video across the network. Distance learning capacities will allow K-12 students to "sit in" on classes at the community colleges and teachers to participate in continuing education classes without leaving their schools. The increased capacity and performance of I-Net enable applications such as two-way video between I-Net members. Schools need their own video or computing equipment to take full advantage of the I-Net network. I-Net is an E-Rate eligible service provider.

Contact Darryl Hunt at 206-263-7890 or visit kingcounty.gov/business/oirm/inet.aspx.

Emergency Preparedness and Prevention

Curricula

Seismic Sleuths Curriculum Guide

King County Department of Executive Services, Office of Emergency Management

Grades 7-12 • A limited supply of Seismic Sleuths curriculum guides is available to educators. Seismic Sleuths is an interactive, hands-on curriculum that explores the cause of earthquakes, ways to measure their effects, and preparedness issues. The guides are produced by the Federal Emergency Management Agency (FEMA).

Contact Timothy Doyle at 206-296-3830 or ecc.kc@kingcounty.gov.

Tremor Troops Curriculum Guide

King County Department of Executive Services, Office of Emergency Management

Grades K-6 • A limited supply of Tremor Troops curriculum guides is available to educators. Tremor Troops is an interactive, hands-on curriculum that explores the cause of earthquakes, ways to measure their effects, and preparedness issues. The guides are produced by the Federal Emergency Management Agency (FEMA).

Contact Timothy Doyle at 206-296-3830 or ecc.kc@kingcounty.gov.

Field Trips

Regional Emergency Coordination Center Field Trips

King County Department of Executive Services, Emergency Coordination Center

Grades 8-10 • Tour the county's Emergency Coordination Center (ECC) where representatives from county departments and outside agencies coordinate disaster operations. Students will learn about the county's role during a disaster, such as an earthquake or flood, and how the ECC assists cities and communities within King County with disaster prevention and response issues. The tour features an inside look at the ECC's high-tech equipment and radios that are used during disaster activations. Tour length is 1.5 to 2 hours. Regular tours are conducted on the fourth Tuesday of each month. Special tours for large education groups may be arranged.

Contact Timothy Doyle at 206-296-3830 or visit kingcounty.gov/prepare.



Environment

HOUSEHOLD HAZARDOUS WASTE

Action Projects

Hazards on the Homefront Action Teams

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 4-12 • Classrooms are encouraged to take action for the environment by completing a project that enhances their own and others' awareness of the effects of household hazardous products. Teachers can receive project funding through mini-grants of \$50 to \$500 as well as technical assistance in developing and implementing the project. Past projects have included water quality testing, storm drain stenciling, organic or pesticide-free gardening, and science or environmental fair projects. Priority is given to teachers who have taken the Hazards on the Homefront teacher workshop (see page 5).

Contact Jennifer Howell at 206-583-0655 or visit kingcounty.gov/solidwaste and select *Education & Schools Assistance*.



EARTH HEROES AT SCHOOL PROGRAM

King County Department of Natural Resources and Parks, Solid Waste Division

Grades K-12 • The Earth Heroes at School Program recognizes teachers, students, staff, programs and schools in King County for doing exceptional work to protect our natural resources through education and action. Nominate a colleague (or yourself) for work that is making a difference for the environment. Nomination forms will be available in January 2009. Call 206-296-4477 or visit kingcounty.gov/solidwaste and select Earth Heroes at School.



Sustainable Landscaping Demonstration Gardens

King County Department of Natural Resources and Parks, Solid Waste Division/King County Department of Development and Environmental Services

All ages • Visit three sustainably landscaped demonstration gardens surrounding the King County Department of Development and Environmental Services at 900 Oakesdale Ave. S.W. in Renton, Washington. The gardens include a drought tolerant (xeriscaped) garden, shade garden and rain garden. Improving the soil and using plants suitable for unique conditions are among the sustainable methods used to respond to three typical

Northwest landscapes: drought, shade and standing water. The gardens are low maintenance, feature native plants, promote healthy soil, minimize water use, and do not need excessive fertilizer or pesticides. Signage and an educational kiosk at each garden allow for self-guided tours of approximately 30 minutes.

Contact Karen May at 206-296-4353 or karen.may@kingcounty.gov.

Curricula

Hazards on the Homefront: A Teacher's Guide to Household Hazardous Waste

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 4-6 and 7-12 • This guide is designed to familiarize students with the health and environmental effects associated with the use of many common household products. Lessons include reading product labels and making safe choices about use, storage and disposal of hazardous products. Two additions for secondary school students include a lesson on analyzing how advertising influences our choices and a lesson on understanding the potential health impacts of exposure to everyday products. The activities in the guide develop skills for investigating household hazardous waste issues, and suggest opportunities for students to help reduce hazardous waste in their community. Lessons in the guide are matched to multiple intelligence levels and various Washington State EALRs and GLEs. The guide is available free to teachers who take the Hazards on the Homefront workshop. Assistance is available to school districts wishing to integrate or adapt the lessons into existing curricula.

Contact Jennifer Howell at 206-583-0655 or jhowell@triangleassociates.com.

Grants

Hazards on the Homefront: Mini-grants

King County Department of Natural Resources and Parks, Solid Waste Division

Teachers of grades 4-12 • Funding in amounts of \$50 to \$500 is available to teachers who have taken the Hazards on the Homefront training. Funding can be used for materials or supplies to teach lessons from the Hazards on the Homefront guide or for carrying out an action project with students. A brief written report is required upon completion of the lesson or project.

Contact Jennifer Howell at jhowell@triangleassociates.com or 206-583-0655, or visit kingcounty.gov/solidwaste and select *Education & Schools Assistance*.

Internet Resources

Hazardous Waste Web Site

King County Department of Natural Resources and Parks, Water and Land Resources Division and Solid Waste Division

- For information on household hazardous waste, visit govlink.org/hazwaste.
- For online publications, visit govlink.org/hazwaste/publications/index.cfm.
- For student resources, visit govlink.org/hazwaste/schoolyouth/student.html. Resources are sorted by age within three categories: household hazardous products, recycling, and water issues.
- Browse a list of books, curriculum guides, and videos at govlink.org/hazwaste/schoolyouth/ref.htm.
- Download and reproduce lessons for grades 4-12 at govlink.org/hazwaste/schoolyouth/pre.htm.
 - Lesson plans for least-toxic, high school chemistry labs; instructions for reducing chemical stockpiles in biology labs; a list of high-risk, low-utility chemicals
 - An activity for sorting and classifying 41 color product labels to identify hazardous items
 - A 13-pair matching or memory game to learn and reinforce hazard categories, signal words (Caution, Warning, Danger, Poison), safer alternatives, and more
 - A Bingo game to learn safer alternatives to hazardous household products
 - A vote on disposal options for hazardous household products and discussion on which is best
 - A 15-question quiz appropriate after the study of hazardous household product issues
 - A word search that reviews key vocabulary
 - Instructions for building a toxin-free slug trap
 - Instructions for making a Green Cleaning Kit

Teacher Workshops

Hazards on the Homefront: Teacher Training Workshops

King County Department of Natural Resources and Parks, Solid Waste Division

Teachers of grades 6-12 • These workshops demonstrate how to incorporate the lessons in the Hazards on the Homefront teacher's guide into various subject areas and fulfill GLEs, including those for science and for health and fitness. Teachers receive resources such as ready-to-use classroom materials and free follow-up support. Clock hours, college credit and a teacher stipend are available. A workshop is scheduled for October 10, 2008. Find dates for additional workshops on the program Web page listed below. Contact Erin McGourty at 206-583-0655 or workshops@triangleassociates.com, or visit kingcounty.gov/solidwaste and select *Education & Schools Assistance*.

WASTE REDUCTION AND RECYCLING

Action Projects

Green Teams

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 1-12 • A Green Team is a classroom group or environmental club that commits to making a positive difference in the environment by completing projects in the classroom, school, or community. Typical school projects include starting a worm bin, sponsoring waste-free lunches, caring for and improving habitat, and encouraging participation in the school recycling program. Workshops and assistance for getting started on a project related to recycling, habitat stewardship, worm bins, and more are available. Green Teams that complete projects are eligible to win prizes and recognition.

To register or receive a list of project ideas, contact a Green Team Specialist at 206-583-0655 or greenteam@triangleassociates.com, or visit kingcounty.gov/solidwaste and select *Education & Schools Assistance*.

Green Team Campaigns

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 1-12 • Environmental clubs or classes ready to take on an environmental project, but uncertain how to



get started can consider using a Green Team campaign, which provides step-by-step instructions and background information for conducting projects to reduce your school's impact on the environment. Campaign topics include carpooling, paper recycling, and plastic bottle reduction and recycling.

Visit kingcounty.gov/solidwaste, select *Education & Schools* and look under *Secondary School Programs*.

Green Team Mini-grants

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 1-12 • Mini-grants in amounts up to \$500 to support project activities related to waste reduction, recycling, and resource conservation are available to teachers who participate in the Green Team program.

Contact Jennifer Howell at 206-583-0655 or greenteam@triangleassociates.com. For descriptions of sample projects and an application form, visit kingcounty.gov/solidwaste and select *Education & Schools*.



Classroom Programs

Earth Challenge: The Choice is Rs Elementary School Assembly

King County Department of Natural Resources and Parks, Solid Waste Division

Grades K-6 • Two professional actors present this highly popular assembly program with a lively, interactive format to empower students to make choices that contribute to

a cleaner planet, community and school. Students will learn how to effectively and efficiently sort recyclables and reusable items from garbage and how to get family and friends to realize that recycling and caring for the planet is everyone's responsibility. The assembly comes in primary and intermediate versions and

is offered between September and March. Slots fill quickly, so early scheduling is recommended.

Call 206-583-0655 or email workshops@triangleassociates.com, or visit kingcounty.gov/solidwaste and select *Education & Schools*.

Assistance to School Facilities

King County Green Schools Program

King County Department of Natural Resources and Parks, Solid Waste Division

K-12 schools (public and private) and school districts in King County (outside the City of Seattle) • The program's mission is to provide King County schools with tools and support needed to

- initiate and expand conservation practices.
- operate environmentally efficient and responsible facilities.
- involve the whole school community in environmental stewardship.

Benefits of participation include the following:

- Assistance – King County provides site visits, tailored recommendations, and hands-on help.
- Cost savings – Schools can save money with most conservation practices.
- Pride – Participating schools and districts are Green School models.
- Resources – King County provides information, referrals, and supplies.
- Recognition – Schools and districts that meet program criteria receive recognition, including a "We are a King County Green School" banner, certificates of recognition, and a success story on the program's web site. Media releases are issued for participants that make significant changes.



The program includes three levels.

Level One - Waste Reduction and Recycling

Program services include

- site visit to assess waste reduction and recycling practices and offer recommendations.
- hands-on help to decrease garbage and expand recycling.
- recycling containers and signs as needed (up to a maximum amount).
- assistance educating students and staff about reducing waste and recycling.
- follow-up help to expand changes and promote successes.

Levels Two and Three – Other Conservation Categories

- Energy Conservation (required in Level Two)
- Environmental Education
- Environmental Purchasing
- Green Building
- Hazardous Materials Management
- Litter Reduction
- Transportation Choices
- Water Conservation (required in Level Three)

Participation is on a first come, first served basis. Contact Dale Alekel at 206-296-8457 or dale.alekel@kingcounty.gov or visit kingcounty.gov/solidwaste and select *School Recycling Assistance*.

Earth Challenge Classroom Workshops

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 1-6 • These interactive workshops build on the lessons of the elementary assembly program. Teachers can choose from among five topic areas: waste reduction and recycling, habitat stewardship, litter prevention, garbology, and worm bins. These 40-60 minute hands-on presentations are fast-paced and action-oriented and inspire students' own ideas about how to reduce waste and care for the environment.

Call 206-583-0655 or email workshops@triangleassociates.com, or visit kingcounty.gov/solidwaste and select *Education & Schools*.



Master Recycler Composter Volunteer Presentations

King County Department of Natural Resources and Parks, Solid Waste Division

All ages • King County's Master Recycler Composter (MRC) volunteers are available to provide school presentations on waste reduction, recycling, composting, and alternatives to household hazardous waste. Presentations include hands-on displays such as worm bins for food waste composting, environmentally friendly and unfriendly lunches, and alternatives to household hazardous products. Presentations can be made on other resource conservation and waste reduction topics as well.

To schedule a classroom visit, contact Shaina Gates at 206-449-1108, or vc@mrcvolunteer.org. For more information on the MRC program, contact Karen May at 206-296-4353 or karen.may@kingcounty.gov, or visit kingcounty.gov/solidwaste and select *Master Recycler Composter*.

Soils, Compost and Worms in the Classroom

Washington State University Extension Service/King County Department of Natural Resources and Parks, Solid Waste Division

Grades 4-12 • Students learn quick and easy ways to turn yard trimmings and vegetable scraps into rich soil amendments. WSU Extension faculty will cover the basics of soils and how composting waste can improve soil structure and productivity. Training includes hands-on

activities with soils and composting worms. Program length is 60-90 minutes.

Contact Darcy Batura at 206-205-3130 or darcy.batura@kingcounty.gov.

EcoConnections Classroom Workshops

King County Department of Natural Resources and Parks, Solid Waste Division

Grades 6-12 • Highly skilled presenters come to your classroom and provide your students with information that increases their understanding of the role they play in environmental quality. The workshops are engaging, interactive, and speak to teens on a level on which they can relate. Students work together in small groups that encourage them to discuss, debate, and discover "why I should care." The workshops challenge teens to develop critical thinking skills by connecting environmental impacts to their everyday choices. All workshops integrate WA State GLEs. Workshops are designed for 50-minutes, but can run up to 75 minutes for longer class periods. Companion videos are provided when appropriate. Choose from six workshops.

Act for Recycling (EALRs –science and social studies) How does recycling affect resource use, energy, and climate change? Students discover the connections by participating in a "talk show" hosted by the presenter. By becoming the "experts" themselves, students learn to bridge the gap between concept and action. In longer class periods, students are encouraged to come up with their own ideas and solutions to promote recycling within their school and the community.

Biodiversity in Our World (EALR - science) What is biodiversity and why is it important for survival on Earth? Students actively engage in a discussion of real world issues such as habitat protection, population growth, pollution, and over-consumption. Through challenging and fun, hands-on activities, students gain a clear understanding of biodiversity, human impacts on the planet, and how their personal choices can make a difference. The high school version also includes a discussion of climate change.

Biospheres (EALR - science) What can studying the closed system of an ecosphere model tell us about how our actions affect the earth? Students discuss biotic and abiotic factors and natural cycles that occur within the ecosphere models and compare this system with the Earth. Working in pairs, students rethink their daily consumption and disposal habits and learn ways to live more sustainably. For high school groups, discussion can include the human impact on climate change.

Consumption Junction (EALRs - science, social studies) How do our lifestyles affect the quality of the Earth's environment? Through studying the life cycle of an aluminum can from its bauxite source to recycling, students learn about the time, energy, and natural resources that are used to make an everyday product, and how we can limit consumption to create a more



sustainable future.

Earth Impact: Over-Consumption or Sustainability? (EALRs – science, social studies)

How and why do we choose what to buy? What impact do these choices have on our planet? How can we choose more sustainable products? Students answer these questions as they rotate

through activities that explore advertising, packaging, and our ecological footprint.

Think Twice (EALRs – science, social studies)

This discussion-based workshop explores in depth the topic of product stewardship – the concept that responsibility for the environmental effects of a product occurs at all stages in its life cycle. Students learn the importance of making conscious, sustainable choices and see how their peers are making a difference around the country. Earth Impact or Consumption Junction is recommended as a prerequisite for this more advanced workshop.

Call 206-583-0655 or email workshops@triangleassociates.com. Look for more information and EALR tie-ins at kingcounty.gov/solidwaste and select *Education & Schools*.

Curricula

Adventures with Zeela Storybook

King County Department of Natural Resources and Parks, Solid Waste Division

Preschool-kindergarten • Adventures with Zeela is the story of a visitor from another planet who comes to Earth to find out how humans solve the problem of too much

waste. This book is available free to teachers in King County.

Contact Donna Miscolta at 206-296-4477 or donna.miscolta@kingcounty.gov.



Waste Reduction and Recycling Activity Sheets

King County Department of Natural Resources and Parks,

Solid Waste Division

Grades K-6 • A variety of activity sheets provide lessons and tips on reducing waste and recycling.

- A Year of Reuse Activities and Ideas
- Be a Garbage Gumshoe
- Investigate Your Garbage
- Composting: Worm Recycling

- Cut Down Paper Waste, Not Trees
- Grocery Store Scavenger Hunt
- How to Improve Your School's Waste Reduction and Recycling Program
- Plan a Waste-Free Lunch
- Set Up Your Classroom to Encourage Reuse
- Worm Works

To download these on the Web, go to kingcounty.gov/solidwaste and select *Education & Schools*.

Field Trips

Tours – Cedar Hills Landfill

King County Department of Natural Resources and Parks, Solid Waste Division

Ages 5 and above • Schedule tours of King County's regional landfill by calling 206-296-4490 or submit your request online. Visit kingcounty.gov/solidwaste and select *Transfer Stations*.

Tours – Transfer Station

King County Department of Natural Resources and Parks, Solid Waste Division

Ages 5 and above • King County's transfer stations – Algona, Bow Lake, Enumclaw, Factoria, Houghton, Shoreline and Vashon – are open for tours by appointment. The Enumclaw, Shoreline and Vashon Transfer Stations are state-of-the-art facilities, featuring recycling services, public facilities and artwork made from recycled materials.

Call 206-296-4490, or submit your request online. Visit kingcounty.gov/solidwaste and select *Transfer Stations*.

Publications

Class Act

King County Department of Natural Resources and Parks, Solid Waste Division

Teachers of grades K-12 •

This quarterly newsletter provides information on programs of interest to teachers. It also reports on projects undertaken by students and teachers on waste reduction, recycling, household hazardous waste, and other environmental issues. Visit kingcounty.gov/solidwaste and select *Education & Schools*.



Contact Donna Miscolta at 206-296-4477 or donna.miscolta@kingcounty.gov.

Videos

The following videos are available for loan for a period of two weeks from the King County Solid Waste Division. Call 206-296-4466.

All the Right Stuff

Grades 6-12 • Topic: Consumerism, teen marketing. Length: 25 minutes. A Canadian teenager looks more closely at teen spending habits. Join him on his trip to the mall and see how teens are bombarded with marketing campaigns that pressure them to keep up with the latest trends.

Complete the Circle: How to Buy Recycled

Grades 5-8 • Topic: Purchasing recycled products. Length: 26 minutes. Go behind the scenes to find out just what happens to recycled materials after they leave the curb. This video shares the message that to make recycling successful, we need to buy products made from recycled materials.

The Cost of Cool

Grades 6-12 • Topic: Teenage consumerism and sustainable living. Length: 26 minutes. Teenagers explore their buying patterns and recognize that much of the stuff they acquire is not needed.

Gotta Have It

Grades 5-8 • Topic: Teen marketing, consumerism. Length: 15 minutes. This video features local young actors in a story about our buying habits, the media, and consumption of natural resources. It promotes critical thinking skills and comes with a discussion guide for teachers.

The Merchants of Cool

Grades 9-12 • Topic: Consumerism. Length: 60 minutes. This Frontline program explores the culture in which today's American teenagers are growing up and how their lives have become the object of obsessive focus by corporate America.

Mr. Rogers' Neighborhood

Preschool-kindergarten • Topic: Recycling. Length: 30 minutes. When solid waste problems plague the "Neighborhood of Make-Believe," Mr. Rogers talks to children about the importance of waste reduction.

Natural Connections – Emmy Award Winner!

Grades 4-12 • Topic: Environmental awareness. Length: 48 minutes. Several Northwest scientists, as well as world-renowned biologist Edward O. Wilson, speak about the inter-connectedness among different species and their ecosystems and how our everyday actions affect

the environment. Topics include biodiversity, the role of salmon in the web of life, keystone species, and healthy forests.

Our Planet Earth

Grades 4-12 • Topic: Environmental awareness. Length: 23 minutes. This award-winning film features 17 astronauts from 10 different countries as they share their experiences and insights in the hope that others will see the wonder and fragility of our planet, as they have, from beyond political and geographical boundaries.

The Rotten Truth

Grades 2-6 • Topic: Waste reduction and recycling. Length: 30 minutes. Visit the "museum of garbage," the world's largest landfill, and a recycling plant as a student guide teaches about waste reduction and recycling.

Studies in Stewardship

Grades 5-12 • Topic: School-based environmental projects. Length: 8 minutes. Three schools in King County are profiled for their environmental projects. Featured are river ecology studies at Snoqualmie Elementary, a recycling program at Tolt Middle School, and a composting project at West Auburn High School.

Stuff Video Project

Grades 8-12 • Topic: Personal consumption and the environment. Length: 13 minutes. High school students from Foster High School (Tukwila School District) helped develop and produce this video, which consists of three short pieces that focus on what goes into making, transporting and consuming ordinary products that North Americans use in their daily lives. In "Think Twice" (6 minutes), two high school students metaphorically "sleepwalk" their way through an average school day, using familiar items such as a cell phone and diet breakfast drink. Through graphics, photos and voice-over narration, the viewer sees where a product comes from, the resources used to make it and where it goes when it is no longer wanted or needed. "Sole for Sale" (1.5 minutes) and "Food for Thought" (2 minutes) also address the issues of consumption and depletion of natural resources. This video comes with a discussion guide for teachers. It is an appropriate follow-up to the "Natural Connections" video.

Turtle World

Grades 3-6 • Topic: Environmental awareness. Length: 9 minutes. This award winner is a prophetic and insightful look at how human nature has allowed us to lose touch with the Earth. It is a simple but powerful story told through the wonder of computer animation and is a great conversation starter.



Wormania!

Elementary - adult • Topic: Earthworms and their habitat. Length: 26 minutes. Worm Woman visits the Brennan kids who learn about worms—how they move, their role in soil ecology, how they breed, and how to set up a worm bin for composting organic waste. The video incorporates unique footage of worms in their natural habitat, and shows microscopic images of the beating of a worm's five pairs of hearts.

Worm Bin Creatures

Grades 6 – adult • Topic: Worm bin organisms. Length: 31 minutes. Explore more than a dozen critters under a microscope as they search for food and shelter in their worm bin home.

WATER QUALITY

Classroom Programs



Groundwater Education

City of Redmond and City of Woodinville

The program is free to all schools within the City of Redmond, and the service areas in Woodinville Water District, Northshore Utility District, Lakehaven Utility District, and Union Hill Water District. All other schools can register for a fee of \$70.

Enviroscope: Grades 4-6 •

Students work with a tabletop model of a typical community and learn how the choices we make everyday affect our environment. Students apply soil (cocoa powder), herbicide and pesticide (kool-aid), oil (soy sauce) and rain on the model. When it rains, the “pollution” flows into rivers and lakes, and can infiltrate soil and groundwater. This is a dramatic, visual example of how our activities can affect water resources above and below ground. Students also discuss what they can do to cause less pollution.

Groundwater: Grades 6-12 •

Did you know that much of our drinking water comes from groundwater? Students use a tabletop groundwater model to explore how groundwater moves within our larger water system. Students also explore what we can do to protect our water resources.

Pond Dipping: Grades 4-9 • Is there a retention pond on or near your school grounds? Did you know that these ponds are teeming with life and help clean our water? Invite a naturalist to poke about the pond and use the scientific method to learn how important these human-built mini-wetlands are to our water system. Students help their naturalist dip for freshwater invertebrates and test for indicator species.

Salmon Cycle: Grades K-4 • Students learn about water quality through this informative lesson on salmon, our watery ecosystem's keystone species. Salmon move from streams to the ocean and back again, encountering many challenges to their survival.

Stream Ecology: Grades 4-12 • This hour-long, in-the-classroom presentation is a prerequisite to the Stream Connection field trip.

Stream Connection Field Trip: Grades 4-12 • This one-hour field trip is held on a separate day from the Stream Ecology presentation. Join a naturalist and explore the salmon ecosystem of Bear Creek, where groundwater is a critical source of clean, cool water for salmon streams. Students observe and discuss the roles of surface and groundwater in watershed health.

Water Conservation: Grades 7-9 • Did you know the Puget Sound area gets less rain than Miami? Join us for an interactive lesson that explores what our society can do to conserve our surface and groundwater.

Water Cycle: Grades K-4 • Students play the role of a water droplet moving through the water cycle stages, including its path through ground and surface landscapes.

Water Supply: Grades 6-12 • Do you know where your water comes from? Discover the origins of your local water and the path it takes to your faucet. Students explore the human and natural factors that affect our water supply and how to protect it.

Wetland Ecology: Grades 4-6 • This hour-long, in-the-classroom presentation is a prerequisite to the Wetland Connection field trip.

Wetland Connection Field Trip: Grades 4-6 • This one-hour field trip is held on a separate day from the Wetland Ecology presentation. Discover the important functions of wetlands in keeping our surface and groundwater clean. Field sites are Cottage Lake Park and Marymoor Ponds.

Wetland Filter: Grades 2-6 • Wetlands are like the kidneys of the earth, filtering water as it circulates through many pathways. Students learn how wetlands perform this important function for our drinking water, as well as the water we share with wildlife.

This program won the Environmental Education Association of Washington's Award of Excellence. To schedule a presentation, contact Nature Vision at 425-836-2697 or obtain a registration form at naturevision.org.

Curricula

Training Environmental Stewards from Mountains to Ocean: A Water Quality Curriculum

Washington State University / King County Extension

Adult volunteers • This curriculum provides a coordinated approach for training volunteers about preserving water quality and quantity across a variety of land uses, particularly from the ridge of the Cascade Mountains to the shores of Puget Sound and the Pacific Ocean. The goal is to train volunteers as natural resource stewards.

The curriculum may be used as a stand-alone course, or modules may be integrated into existing volunteer training programs such as Master Gardener, Extension Watershed Steward, Beach Watcher, or Extension Livestock Advisor programs. Extension faculty members have developed this curriculum in cooperation with regional experts and with funding from USDA-CSREES. It has been piloted in several WSU Extension programs and is available for use throughout the Pacific Northwest.

The program is available year round and can be downloaded from king.wsu.edu/enviro/Curriculum.htm. A hard copy or CD may be requested at no cost from Tara Zimmerman at 206-205-3203 or tara.zimmerman@kingcounty.gov.

Waterworks Garden – South Plant – Renton

King County Department of Natural Resources and Parks, Wastewater Treatment Division

All ages • View landscape architecture, public art, storm water treatment and wetland habitat all in one place. This eight-acre wetland park blends art, technology and ecology to treat the storm water run-off from the adjacent 94-acre South Wastewater Treatment Plant. Observe public art as it actively prevents pollution and discover the benefits of water reclamation and reuse. Visit between dawn and dusk seven days a week. Trails



Field Trips

Wastewater Treatment Plant Tours

King County Department of Natural Resources and Parks, Wastewater Treatment Division

Ages 11-adult • Where does it go when you brush and flush? Can wastewater be recycled? Tour a wastewater treatment plant and find out how treating sewage protects people and the environment, creates energy, protects salmon, and helps forests. Tours encourage visitors to think about responsible water use, the products they use and how everyday choices can help protect the Puget Sound. Please, one adult per seven youths; schedule three weeks in advance. Choose from the following tour possibilities:

- South Plant in Renton or West Point in Discovery Park – 2 hours
- South Plant, Waterworks Garden, Black River Heron Rookery and Riparian Forest – 4 hours
- West Point and ecosystem exploration or hike – 4 hours
- South Plant and Cedar Hills landfill – 4 hours

Call 206-296-8286 or visit kingcounty.gov/environment.

are fully accessible and can be walked in 15 minutes. The park connects with the Springbrook Trail and the Black River Riparian Forest. Limited parking, no restrooms.

Call 206-296-8286 or visit kingcounty.gov/environment.

Wheels to Water

King County Department of Natural Resources and Parks, Wastewater Treatment Division and Metro Transit

Grades 5-12 • Get free Metro bus transportation directly from your school to one of the Wastewater Treatment Division's field trip sites. Buses are limited and must be scheduled three weeks in advance.

Call 206-296-8286 or visit kingcounty.gov/environment.

Videos

Groundwater Story Animation

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Topic: Groundwater. Length: 4 minutes. Watch this musical animation and learn about the importance of groundwater to living things -- including people -- and how to help protect this hidden resource.

Access it online at kingcounty.gov/environment.

Other Resources

Groundwater Poster

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • This free poster illustrates all aspects of the hydrologic cycle. To view the poster online, go to kingcounty.gov/environment.

Contact Donna Kalka at 206-296-8494 to receive a copy.

and/or initiating projects that reflect their interests and the needs of their communities. Stewards are supported by WSU Extension staff and by the many watershed stewards who have been trained over the 16 years of the Extension Watershed Stewardship program. Videos on water quality, wetland monitoring and agricultural best management practices are also available for loan.

Contact Tara Zimmerman at 206-205-3203 or tara.zimmerman@kingcounty.gov or visit king.wsu.edu/envirostewardship.htm.

Native Plant Salvage Program

King County Department of Natural Resources and Parks, Water and Land Resources Division

Grades 6-12 • This unique recycling program involves volunteers in digging up plants from natural sites before they are cleared for development. Later, salvaged plants are replanted at habitat restoration sites. It is a great opportunity for middle and high school students to learn about native plants and their role in protecting the aquatic ecosystem. Volunteers are needed at both the native plant nursery and during the salvage.

Contact Greg Rabourn at 206-296-1923 or greg.rabourn@kingcounty.gov. For upcoming salvages, visit kingcounty.gov/gonative.

Volunteer Plantings/King County Adopt-A-Park Programs

King County Department of Natural Resources and Parks, Parks and Recreation Division

Grades 3-12 • Youth volunteer opportunities range from one-time events to the adoption of a local park. Projects can vary significantly, depending on the specific goals and objectives of the participants and the opportunities available in parks and natural lands. Stewardship and restoration projects are popular and may include fall tree plantings or spring invasive plant removals for stream, wetland and meadow restoration projects at various parks.

Volunteering at the King County Greenhouse and Nursery to help raise native plants for restoration projects can be done throughout the year, and is a great activity for younger students. These are often the easiest opportunities for teachers to tap into since there is no long-term commitment. Special volunteer events can be arranged for school groups. Educators interested in a long-term experience can adopt a site with a minimum commitment of four projects per year such as cleaning up litter, planting trees, removing invasive plants, and/or monitoring the health of a site.

Projects are planned for many Saturdays in the spring and fall. These make great extra credit projects for students. Young children must be supervised and an adult must accompany children under 16. Liability waivers are required for those under 18. Teachers interested in a potential project for a class are encouraged to call.

Contact Tina Miller at 206-296-2990 or tina.miller@kingcounty.gov, or visit kingcounty.gov/parks.



WATERSHEDS AND HABITAT

Action Projects

Extension Watershed Stewardship Program

Washington State University / King County Extension

Adults • Extension Watershed volunteers provide education and leadership throughout King County on a variety of natural resource management, conservation, and restoration projects. Volunteers undergo classroom and field training by professional staff from WSU King County Extension, public agencies and citizen organizations. Recent trainings have focused on urban and rural connections as well as watersheds and salmon, including presentations on geology, hydrology, forest resources, native plants, wetlands, wildlife and interactions between people and watersheds. Trainees also learn how to organize stewardship projects and how to educate youth and adults.

Classes are typically held on nine consecutive Fridays from September through the first week of November, 9 am to 4 pm, and three Saturday field trips, 9 am to 3 pm. Following completion of the training program, new watershed stewards embark on community-based projects, working within existing volunteer programs

Grants

WaterWorks Grants

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Grants are available for community projects that protect or improve watersheds, streams, rivers, lakes, wetlands or tidewaters. Projects must have a demonstrable positive impact on the waters of King County and must either improve or protect water quality and water dependent habitats, or demonstrate the beneficial use of biosolids or reclaimed water. Grant amounts range from micro-grants of up to \$500 to more competitive, matching grants of up to \$50,000.

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@kingcounty.gov, or visit kingcounty.gov/environment.

Wild Places in City Spaces

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Restore urban wildlife habitat and reforest your city spaces. These grants can be used for restoration on school grounds or a local park, re-establishing urban wildlife, and native gardening within the Urban Growth Boundary area of King County. Grants are available for under \$500 and up to \$10,000.

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@kingcounty.gov, or visit kingcounty.gov/environment.

WATERSHEDS AND SALMON

Classroom Programs

Those Amazing Salmon - Classroom Presentations

Grades K-8 • Free in-class presentations on salmon and watersheds are offered to King County schools by the Friends of the Issaquah Salmon Hatchery (FISH). This popular presentation consists of a slide show discussing the definition and importance of watersheds, hatchery operations, and the lifecycle, habitat requirements, and predators of Pacific salmonids, and the challenges they face. After the slide show, teachers have the option of a watershed or Native American legend activity for their class.

The presentation, which lasts for 45 minutes to 1.5 hours, is aligned to Washington State Essential Academic Learning Requirements in science and social studies. Ideally, a class receives the presentation prior to a visit to the hatchery. Priority for the in-class presentations is given to those classes scheduled for a tour of the hatchery in order to prepare them for their visit. If your school is unable to schedule a field trip, FISH would be happy to visit your classroom anytime after our busy season, which runs from mid-September through mid-November. The program is available September through June.

Contact Celina Steiger at 425-392-8025 or celina@issaquahfish.org, or visit issaquahfish.org/yourhatchery/materials.html.

Field Trips

Those Amazing Salmon - Hatchery Tours

Grades Pre-K to adults • Come see the salmon at Issaquah Creek! Watch spawning salmon, see the hatchery in action, and learn about challenges to salmon and what we can do to help them. Scheduled groups of students and adults are led through the hatchery by trained volunteer docents. Tours last 45 minutes to one hour and are available primarily mid-September through early November, though winter and spring tours may also be scheduled. The tour, ideally in conjunction with Those Amazing Salmon classroom presentation, helps fulfill the state mandate to provide environmental education experiences to students and is aligned to Washington State Essential Academic Learning Requirements in science and social studies.

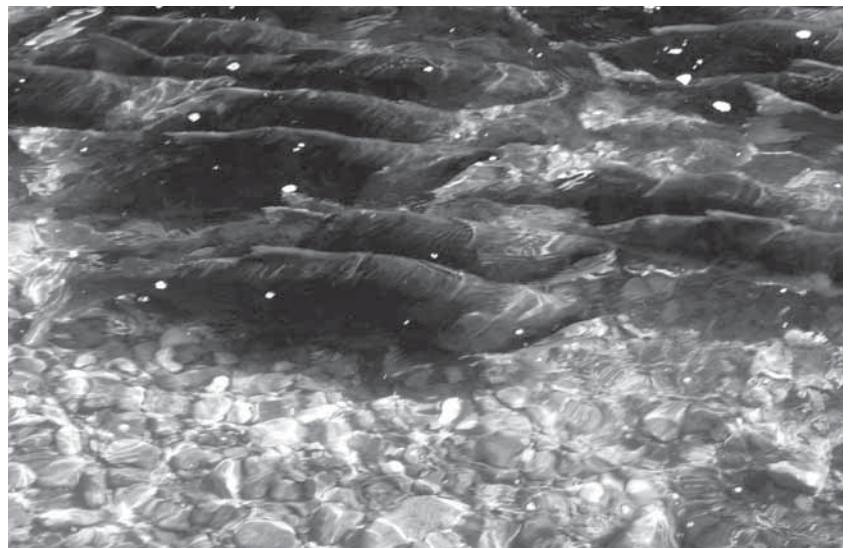
Contact Celina Steiger at 425-392-8025 or celina@issaquahfish.org, or visit issaquahfish.org/yourhatchery/materials.html.

Field Trips

Cedar River Salmon Journey

Take part in the Cedar River Salmon Journey this fall – and bring the kids! Come see spawning salmon and learn about them and the Cedar River. Volunteer naturalists will be stationed from 10 a.m. to 5 p.m. on October 11, 12, 18, 19, 25, and 26 and November 1 at Renton Library, Riverview Park, Cavanaugh Pond and Landsburg Park. Carpool if you can – these sites have limited parking.

Call 206-245-0143 or visit cedarriver.org/about/cedarriersalmonjourney.shtml.





Salmon SEEson

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • During the fall, salmon return to streams and rivers around the Puget Sound. Spot the spawners in the Lake Washington/Cedar/Sammamish Watershed from September to December, from Seattle to Issaquah and Renton to Redmond. Salmon SEEson provides information to help you spy these natural beauties at various times and locations as they make their seasonal journey home each year. Many dates and locations have staff or volunteer naturalists on hand to point out salmon; some are self-guided locations.

Salmon SEEson opportunities are suitable for all ages. Classes can spend from 15 minutes to an hour on-site, depending on the nature of the site and class needs. Brochures, posters and a website are available to help you find the best time and location for you and your class to see spawning salmon.

Contact Linda Grob at linda.grob@kingcounty.gov or 206-296-8016 or visit kingcounty.gov/salmon.

Grants

Community Salmon Fund

King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • A joint project between King County and the National Fish and Wildlife Foundation, this fund is meant to stimulate small-scale, voluntary action by landowners, community groups, and businesses to support salmon recovery on private property in King County and South Snohomish County.

Contact Ken Pritchard at 206-296-8265 or ken.pritchard@kingcounty.gov or visit kingcounty.gov/environment.

Other Resources

Salmon Poster

King County Department of Natural Resources and Parks, Water and Land Resources Division

Grades 6-adult • What are the problems that salmon face in the Green/Duwamish watershed in southern King County? What are people doing to care for their watershed for the benefit of people and fish? This colorful poster summarizes the problems and lays out the solutions that will make the watershed “fit for a King” (salmon).

Contact Dennis Clark at 206-296-1909 or dennis.clark@kingcounty.gov.

OTHER ENVIRONMENTAL PROGRAMS AND RESOURCES

Curricula

Agriculture Youth Program

Washington State University Extension Service/King County Department of Natural Resources and Parks

Grades 4-12 • This program promotes agriculture as a career among youth and supports science teachers in the inclusion of agriculture, natural resources and the food system in their curricula. The program is offered year round for science teachers, youth, and volunteers. Through hands-on experiments and through the preparation of an agriculture project, students learn that agriculture is more than farming. Students also learn different aspects of agriculture such as soil texture by feel, pH concepts, soil preparation, seed collection, and the many crops used in food production. The program also provides “Agriculture in the Classroom” opportunities for school teachers with little or no agriculture background. In addition, teachers can enrich their curriculum and learn activities for classroom use through a training (requires a minimum of 20 people).

Contact Sonia G. Morales at 206-205-3133 or sonia.morales@kingcounty.gov or sgmorales@wsu.edu.



GIS Free Brownbag Workshops

King County GIS Center

Grade 6 – Adult • Learn how to use King County’s on-line GIS (Geographic Information System) mapping tools with these free lunchtime brownbag workshops.

Using iMAP introduces this interactive Web-based mapmaking application to new users. iMAP provides online access, via an HTML browser window, to map layers in the King County Spatial Data Warehouse. *Using iMAP* is for those who are relatively new to the iMAP browser-based interface. No prior knowledge of iMAP or GIS is required.

KCGIS Census Resources introduces this web-based application to new users. Students learn how to view maps and tables of more than 100 community census data indicators for 77 defined places throughout all of King County. *KCGIS Census Resources* is for those who would like to become familiar with Census Viewer’s browser-based interface, the information that Census Viewer displays, and KCGIS census data resources. No prior knowledge of Census Viewer or GIS is required.

For more information, visit kingcounty.gov/gis.



Field Trips

Land Use, Forest Ecology, Biosolids and Soil

Mountains to Sound Greenway Trust and King County Department of Natural Resources and Parks, Wastewater Treatment Division

Grades 5-10 • Educators can choose from four curricula: Forests on the Edge; Forests and Fins; Greening up the Greenway (biosolids recycling); and Savvy about Soil, Wise about Water. Each curriculum has an introductory lesson (taught by teacher), and in-class sessions and field trips led by a Mountains to Sound environmental educator. Teachers can choose to use all segments of the curriculum or just one, as each stands on its own. These programs help students understand forest ecology, land use issues, the salmon life cycle, biosolids recycling, and soil and water issues. Hands-on activities, a video and student-led presentations enrich each curriculum.

This year opportunities are available for students to participate in environmental restoration events on public lands in the Mountains to Sound Greenway. After a class completes the education portion of our program, it may register for a one-day restoration event that could include tree planting, invasive plant removal and work in our nursery. Concepts presented in the education portion of the program will be reinforced in the restoration event.

All programs help fulfill the state mandate to provide environmental education experiences to students and are aligned to Washington State Essential Academic Learning Requirements in science, social studies, mathematics, reading and communication. Financial assistance is available for transportation to the field trip and restoration events. Teachers may also choose to use the free Wheels to Water bus by contacting Casey Plank at 206-263-6028.

Contact Sally Kentch at 206-524-1655 or sally.kentch@mtsgreenway.org or visit mtsgreenway.org.

Internet Resources

King County Department of Natural Resources and Parks Web Site

King County Department of Natural Resources and Parks

All ages • Find information about hands-on volunteer projects, publications and technical information at kingcounty.gov/environment/dnrp.aspx. Topics and issues include

- environmental grants
- hands-on volunteer projects
- parks and recreation
- recycling
- salmon
- solid waste
- wastewater treatment
- water conservation
- water and land

Also visit our Resources for Students page at kingcounty.gov/environment/stewardship/teachers-students.aspx.

King County Department of Natural Resources and Parks – Publications Online

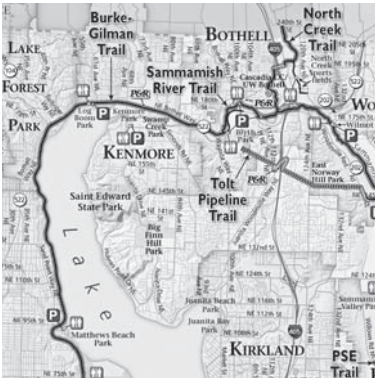
King County Department of Natural Resources and Parks

All ages • Online publications can be accessed at kingcounty.gov/environment/wlr/publications.aspx.

King County Geographic Information System Web Site

King County GIS Center

All ages • Visit kingcounty.gov/gis for access to free maps and on-line interactive mapping tools. Maps covering a wide variety of topics, including natural resources, transportation, demographics, and local government, can be found on the Virtual Map Counter. King County iMap, our portfolio of on-line mapping tools, provides educators and students the ability to create their own maps in a variety of themes, and even include aerial photography for many parts of the county dating from 1936 through the present.



King County Solid Waste Division Web Site

King County Department of Natural Resources and Parks, Solid Waste Division

All ages • Online information about solid waste, recycling, waste reduction, composting and other waste management techniques for homes and businesses in King County can be accessed at kingcounty.gov/solidwaste.

King County Water and Land Resources Division Web Site

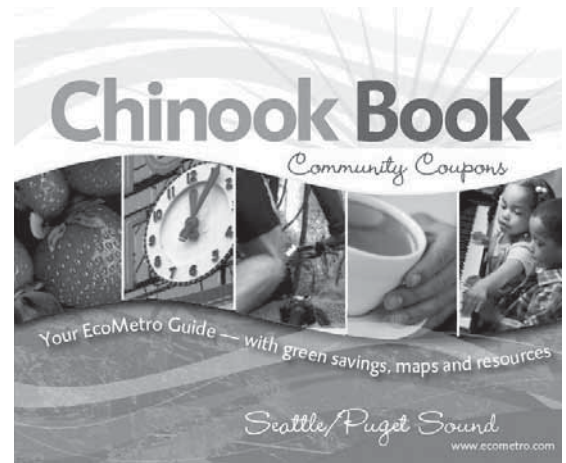
King County Department of Natural Resources and Parks, Water and Land Resources Division

All ages • Visit kingcounty.gov/environment/wlr.aspx for information on watersheds, groundwater, stormwater and other water and land topics. Visit kingcounty.gov/environment/wlr/resource.aspx for resources on water quality in King County.

Other Resources

Chinook Book™ Fundraising Program

All ages • Looking for a fundraiser to support environmental programs and activities? Chinook Book™ is a one-of-a-kind resource guide and coupon book



for living well and having fun in Seattle/Puget Sound. Chinook Book™ offers a fundraiser that supports personal health, responsible businesses and a strong local economy. It combines educational information and tips for healthy living with over 300 coupons for environmentally-friendly products and local services.

A Chinook Book™ fundraiser is easy and flexible to administer. Our staff is happy to assist you in reaching your fundraising goal. We will provide you with copies of the book, promotional materials, and support prior to and throughout your fundraiser. There are no up-front costs - simply return what you don't sell. The retail price of the book is \$20 and your school or organization will keep up to 50% of the profits, depending on the total quantity of books sold.

Contact Anne McMonigle at 206-281-1122 or anne.mcmonigle@ecometro.com, or visit chinookbook.net.

Video

King County GIS and Mapping Resources

King County GIS Center

Grade 6 – adult • Learn about the GIS and mapping resources King County provides to the public. This four minute on-line video provides a brief introduction to GIS and King County GIS resources and operations. Visit kingcounty.gov/gis.

Nutrition

Curricula

Extension Family Nutrition Education Program – EFNEP

Washington State University / King County Extension

Grades K-12 • This effective year-round food and nutrition education program targets students and families with limited resources. The youth program employs a well-tested curriculum aimed at improving students' food and nutrition-related knowledge, behaviors and overall health. Dynamic, interactive classes use demonstrations, handouts, games and hands-on activities to enhance learning.

Well-trained Nutrition Educators, experienced in teaching culturally diverse audiences in a variety of settings, work with individual teachers to plan a series of classes designed to meet class and program objectives and to address the needs of individual student audiences. A series of classes is available, with lessons ranging in length from 30-60 minutes, depending on topic and age of students. The number of lessons provided and topics covered is flexible/variable, and determined by mutual agreement between teacher and Nutrition Educator.

Opportunities for practicing new skills are provided to enhance learning and encourage positive changes in food and nutrition-related behaviors. Lesson handouts are

provided to students during individual lessons. Topics include

- the food guide pyramid
- cooking skills
- nutrients for a healthy body
- food shopping
- healthy snacks
- food safety
- meal planning

Contact Susan Hauck at 206-205-3217 or susan.hauck@kingcounty.gov, or visit king.wsu.edu/nutrition/index.htm.

Food \$ense CHANGE Program Nutrition through Gardening Education

Washington State University / King County Extension

Grades K-6 • This integrated nutrition education program targets students with limited resources and teaches experientially through gardening and cooking. Food \$ense CHANGE educators provide ten classrooms lessons that are aligned to the GLEs and EALRs with emphasis on math, science, reading and writing. In addition, they supply teachers with supplemental activities so they can integrate nutrition education into everyday studies.



Food \$ense CHANGE also publishes parent newsletters and participates in family activities at the schools. Food \$ense CHANGE works in collaboration with local partners to help communities and schools become healthier places to live, work and learn. Resources include partnerships with existing county programs such as 4-H, Master Gardeners, and Master Recyclers and Composting Program. CHANGE currently works with elementary schools in the Highline, Tukwila, Auburn, Bellevue and Seattle school districts.

Contact Susan Hauck at 206-205-3217 or susan.hauck@kingcounty.gov, or visit king.wsu.edu/nutrition/change.htm.

Food \$ense Harvest of the Season Program

Washington State University / King County Extension

Grades K-6 • This program brings local farm produce into classrooms along with a lesson plan and kit full of everything needed to make a seasonal recipe. Harvest of the Season targets students with limited resources and aims to teach nutrition experientially through hands-on preparation of local and seasonal foods. This program is offered four times during the school year, with each session highlighting a different seasonal fruit or vegetable. Students are able to practice making a healthy snack, learn about the farm that grew their food, and take home the recipe and information about the farm and produce to share with their families. Nutrition is a scientific subject that incorporates health and fitness. Harvest of the Season is a resource for classroom teachers who would like to integrate nutrition education into their existing science, math, reading and writing curricula. In this program, students

- follow a recipe and measure ingredients to prepare and eat healthy snacks.
- read stories and view pictures from local farms to learn where their food comes from.
- analyze recipe ingredients and complete supplemental activities in math, writing and science to learn about the

nutritional benefits of fruits and vegetables.

Harvest of the Season collaborates with the WSU King County Extension Farm-to-School Program to form partnerships with small local farms. This program supports local farms through direct purchasing and by educating school staff and families to build community support for local agriculture. Harvest of the Season currently works with elementary schools in the Highline, Renton and Auburn school districts.

Contact Acacia Larson at (206) 205-3180 or acacia.larson@kingcounty.gov.

Other Resources

Farm-to-School Connections Team

Washington State University / King County Extension

Grades K-12 • The WSU King County Extension Farm-to-School Connections Team is composed of individuals, parents, agencies, and organizations working to make farm-to-school connections. Meetings are open to the public. Farm-to-school projects include classroom activities, school gardens, farm field trips, serving local farm foods in school cafeterias, and more. The Farm-to-School Connections program is a great source for information about school gardens and farm field trips, including links to science and health EALRs.

The mission of the Farm-to-School Connections Team is twofold: to improve the nutrition environment in schools and to support local farms. We hope to accomplish these goals through providing resources for nutrition and agriculture education, including school gardens, by fostering economic relationships between the two sectors, and by serving as a network and support group for those who share these goals.

Contact Tricia Sexton, Farm-to-School Program Coordinator, at 206-205-3206 or tricia.sexton@kingcounty.gov.

Transportation

AIRPORT/AVIATION EDUCATION

Curricula

Career Exploration

King County Department of Transportation, King County International Airport

Grades 7-12 • Students learn about careers in international trade and transportation through case studies prepared by the Magnuson Partnership, a project of the Port of Seattle and King County. These case-study lesson plans feature people in our community who work in trade and transportation. They are designed to give students an active way to “try on” a career. In addition, they help students practice basic skills in reading, writing and problem solving.

These lesson plans are all based on the 7th and 10th grade benchmarks for the Washington State Essential Academic Learning Requirements (EALRs). They are also specifically designed to help students prepare for the reading and writing exercises that are part of the Washington Assessment of Student Learning (WASL) exam. Each lesson plan includes everything needed for a 45-minute to one-hour lesson: student handouts, teaching notes, discussion questions, background information, answer keys, and at least one suggested written assignment to assist teachers with assessing student learning.

Download lesson plans at kingcounty.gov/airport.

Field Trips

King County International Airport Field Trip

King County Department of Transportation, King County International Airport

All ages • A ramp-side tour explaining the history and current operations of one of the nation’s busiest general aviation airports takes a minimum of one hour. In addition to the Boeing Company delivery ramp, where the newest commercial jet aircraft can be seen, the tour allows observation of a wide variety of general aviation businesses and activities. If time allows, additional stops can include the Aircraft Rescue and Fire Fighting station to see the latest in aviation emergency response equipment, the 1930 Terminal Building, including historical displays and public art exhibits, and/or visits to local airport businesses.

Group tours are provided free of charge, but are subject to current security requirements. Reservations are requested at least two weeks in advance. Tours require a minimum of 10 people and can accommodate up to 18 on a single bus tour. Larger groups of up to 25 can be accommodated on a tour if they provide their own bus.

For more information on airport tours, contact Kellie Knauss, Airport Deputy Manager, at 206-296-7399 or kellie.knauss@kingcounty.gov.

Groups wishing to visit the Museum of Flight (located on the southwest side of Boeing Field) should call 206-764-5700.



Other Resources

Job Shadows and Internships

King County Department of Transportation, King County International Airport

Grades 9-12 • Aviation remains one of the most important aspects of the Northwest economy. Airport staff will help teachers and students arrange job shadows and internships in aviation-based occupations on an individual basis. Large-scale career events with a wide variety of job shadows are held throughout the year and as part of King County’s Take Your Children to Work Day. The airport also partners with the Museum of Flight in other career exploration activities, including an annual Educator’s Open House and Women Fly! – a conference that encourages young women to consider non-traditional aviation careers.

Contact Leslie Barstow, Community Relations at 206-296-7480 or leslie.barstow@kingcounty.gov.

Opportunity Skyway

King County Department of Transportation, King County International Airport

Grades 5-12 and school dropouts • Located on-site at Boeing Field, this airport-based education initiative uses hands-on learning to teach math, science, technology and other aviation-related subjects. Activities include student assembly of full-sized aircraft; school-based projects using gliders, kites, hot air balloons, wind tunnels, navigation and other aspects of aviation; and competitions that test student skills in aeronautical design, construction and flight. Opportunity Skyway strives to integrate academic and vocational learning. The program operates year-round and includes

- a summer program for youth seeking skills leading to a first-time job experience.
- out-of-school youth working to attain their high school diploma or GED while developing aircraft assembly skills.
- a summer aviation day camp for younger children.

Call 206-296-7480 or visit kingcounty.gov/airport.

TRANSIT EDUCATION AND SAFETY

Field Trips

Youth Field Trip Program

King County Department of Transportation, Customer Services

Schools and youth organizations may travel on Metro buses for half price. The maximum group size is 30 people. Get a program brochure, field trip forms, and ideas for fun destinations on a Metro bus at metrokc.gov/kcdot/kids/transit/field.htm.

Contact Patricia Banks at 206-684-1581 or patricia.banks@kingcounty.gov.

Internet Resources

King County Metro Bus and Alternative Travel Options

King County Department of Transportation, Customer Services

All ages • Besides taking the bus to conserve fuel, improve air quality and reduce global warming, many students and employees utilize carpools, vanpools, bikes and even walking routes instead of driving alone. These other transportation modes work great on a regular travel basis, part-time or even just for special events.

Visit kingcounty.gov/kcdot.

Transit Topics for Kids Web Site

King County Department of Transportation, Customer Services

All ages • Students can find a bus photo album, activities, and interesting articles for personal interest or school reports on the Transit Topics for Kids Web site.

Visit kingcounty.gov/kcdot and select Metro Transit.

Contact Ande Maillet at 206-684-1526

Videos

See You on Metro

King County Department of Transportation, Customer Services

Grades 6-12 • This video is an excellent tool for English as a Second Language (ESL) and Special Education programs. It is highly visual with simple narration that is closed captioned and easy to understand. The 12-minute video may be seen at one sitting, or it may be watched one section at a time. Subjects/sections include

- Introduction to Metro
- Getting Information
- How to Pay Your Bus Fare
- Regional Reduced Fare Permit (RRFP)
- Fare System
- When to Pay Your Bus Fare
- How to Use a Transfer
- Ready to Ride?
- When You Need Help
- Riding on the Bus
- Other Transportation Choices

Contact Ande Maillet at 206-684-1526.



4-H Programs

Action projects

4-H Projects and Curricula

Washington State University Extension/King County Department of Natural Resources and Parks

Grades K-12 • From gardening to rocketry, wetlands to computers, as well as the theatre arts, 4-H activities teach life skills. Research-based information offers background knowledge for long-term projects that can be taken to the urban, county and state fairs. Volunteers, K-12 teachers and home-school families find the activities and projects easy to adapt to individual needs and classroom sites.

Contact Lori Greer at 206-205-3152 or lori.greer@kingcounty.gov for details, or visit king.wsu.edu/4h.

Curricula

4-H Adolescent Youth Development

Washington State University Extension/King County Department of Natural Resources and Parks

Adults • This best-practices curriculum, authored by 4-H and the U.S. Army, contains 40 hours of training to prepare adults to work effectively with adolescents. The training includes modules about development of youth-adult partnerships, working effectively in groups, adolescent growth and development, working in groups with diverse ethnicities, ages, and cultures, and dealing with conflict effectively. The training is highly experiential and has been used effectively throughout the U.S. and in Army bases around the world. This program is available upon request.

Contact Lori Greer at 206-205-3152 or lori.greer@kingcounty.gov.

4-H School Enrichment

Washington State University Extension/King County Department of Natural Resources and Parks

Materials available for age ranges 6-10, 11-14, 15-19 • 4-H offers youth development activities both during and after school. In-school programs are usually delivered by the classroom teacher using 4-H curriculum materials with support from King County staff and experienced volunteers. Curricula are authored by Washington State University faculty experts in content and youth development. Content areas include Consumer Education, Service Learning, Character Education, Conflict Resolution, Performing Arts, Expressive Arts, Foods, Nutrition, Cooking, Geology, Environmental Stewardship, Entomology, Water Resources, Know Your

Government, Leadership, and many more. Most curricula are aligned with EALRs. The program is available year round by request. Length of time is flexible, but usually requires 5-10 hours.

Contact Lori Greer at 206-205-3152 or lori.greer@kingcounty.gov.

Other Resources

4-H Best Management Practices

Washington State University Extension/King County Department of Natural Resources and Parks

Grades 6-12 • 4-H programs feature Best Management Practices (BMPs), field trips, competition, and implementation. In conjunction with the King County Water and Land Resources Division, 4-H offers youth groups an opportunity to tour local farms in spring, summer and fall to learn about Farm Plans and BMPs for livestock. Youths can create educational exhibits for fair competitions and to inform fair visitors about BMPs. High school students are invited to construct BMPs on selected farms.

Contact Lori Greer at 206-205-3152 or lori.greer@kingcounty.gov for details, or visit king.wsu.edu/4h.

4-H Challenge Ropes Course and Portable Challenge Kit

Washington State University Extension/King County Department of Natural Resources and Parks

Grades 6-12 • Located at Waskowitz Outdoor School, the year-round 4-H Challenge Ropes Course offers outdoor activities that develop problem-solving skills, teamwork, self-awareness, communication, and leadership among youth. Trained facilitators ensure safety and fun. Pre- and post-event activities are suggested for classroom reinforcement of skills learned in the field. A portable challenge kit is available to teachers who have attended a three-day facilitator training offered twice each year. Kit activities can be easily conducted in the school gym on an as needed basis. Allow one day for the Challenge Ropes Course at Waskowitz Outdoor School, two hours for Portable Challenge. Facilitator training is also available to interested community members.

Contact Lori Greer at 206-205-3152 or lori.greer@kingcounty.gov.



4-H Rite of Passage

Washington State University Extension/King County Department of Natural Resources and Parks

Ages 16-19 • 4-H Rite of Passage (ROP) is a culturally appropriate solo wilderness experience by which youth mark their graduation from high school with serious thought and purposefulness. The program involves preparation at home through guided activities, followed by up to three days and nights alone in the wilderness, and then reflection and planning for the future. 4-H Rite of Passage is an extension of the 4-H Challenge program (portable, low ropes and high ropes courses) in which youths explore their strengths and challenges. The program is highly experiential and effective for those who choose it. Adult Training for Guides is held in August, and Youth ROP is held in June. Ten days are required.

Contact Lori Greer at 206-205-3152 or lori.greer@kingcounty.gov.

4-H Strengthening Families

Washington State University Extension/King County Department of Natural Resources and Parks

Ages 7-20 • This program is designed to build communication skills among family members. It focuses on the major issues that the family raises and provides training for the adults and youth separately, and then guided time together in which to practice the skills they've learned. The program curriculum is highly experiential. "Families" for the purpose of this training includes any adult/youth group that provides life supports to one another and that looks to each other as a family. The program is available by request and requires classroom space, a video player and TV. Three-hour sessions are held once a week for seven weeks. Each session includes a meal and time to learn and practice the skills.

Contact Lori Greer at 206-205-3152 or lori.greer@kingcounty.gov.



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For additional copies of this directory,
please call 206-296-6542 or email website.swd@kingcounty.gov.

Produced by King County Department of Natural Resources and Parks – Solid Waste

King County Program Contacts

Note: All King County employees can be reached by using the following e-mail format: *firstname.lastname@kingcounty.gov*

Department of Community and Human Services

Work Training Program
George Dignan 206-296-5220

Department of Executive Services

Civil Rights Commission
Paula Harris-White..... 206-296-8610
Civil Rights Education
Rose Dotson 206-296-7592
Emergency Preparedness and Prevention Training
Timothy Doyle 206-296-3830
Fiber Optic Network
Darryl Hunt 206-263-7890

Department of Natural Resources and Parks

Adventures with Zeela Storybook
Class Act Newsletter
Donna Miscolta..... 206-296-4477
Earth Challenge: The Choice is Rs
Earth Challenge Classroom Workshops
EcoConnections Workshops
Green Teams
Green Team Mini-grants
*Emily States 206-583-0655
Green Schools Program
Dale Alekel 206-296-8457
Hazards on the Homefront Action Projects
and Mini-grants..... 206-583-0655
Hazards on the Homefront Teacher Training
*Erin McGourty 206-583-0655
Master Recycler Composter Program
Karen May..... 206-296-4353
Master Recycler Composter Volunteer Presentation
*Shaina Gates 206-449-1108
Native Plant Salvage Program
Greg Rabourn..... 206-296-1923
Natural Resource Stewardship Network
Linda Vane 206-296-8042
Salmon Poster
Dennis Clark..... 206-296-1909
Salmon SEEson
Linda Grob..... 206-296-8016
Water Quality Grants
Ken Pritchard 206-296-8265
Volunteer Plantings/Adopt-A-Park Program
Tina Miller 206-296-2990

* Non-county contact

Department of Transportation

Airport Field Trips
Kellie Knauss..... 206-296-7399

Aviation Job Shadows and Internships
Leslie Barstow 206-296-7380
Metro Bus and Alternative Travel Options
See You on Metro
Bob Flor..... 206-684-1611
Transit Education and Field Trip Programs
Patricia Banks 206-684-1581

OTHERS

Note: All 4Culture employees can be reached by using the following e-mail format: *firstname.lastname@4culture.org*

4Culture

Arts Projects Grants
Doreen Mitchum..... 206-296-7579
Heritage Cultural Education
Patricia Filer..... 206-296-4819
Heritage Projects Grants
Eric Taylor 206-296-8688

Chinook Book™

Chinook Book Fundraising Program
Anne McMonigle 206-281-1122

Friends of the Cedar River Watershed

Cedar River Salmon Journey 206-245-0143

Friends of the Issaquah Salmon Hatchery

Those Amazing Salmon
Celina Steiger..... 425-392-8025

Mountains to Sound Greenway Trust

Land Use, Forest Ecology, Biosolids and Soil
Sally Kentch..... 206-524-1655

Nature Vision

Groundwater Education 425-836-2697

Washington State University Extension – King County

4-H Youth Development Education Programs
Lori Greer 206-205-3152

Agriculture Youth Program
Cultural Diversity Program
Sonia G. Morales 206-205-3133

Extension Family Nutrition Education Program
Susan Hauck..... 206-205-3217

Extension Watershed Stewardship Program
Tara Zimmerman 206-205-3203

Farm-to-School Connections Team
Tricia Sexton..... 206-205-3206

Food \$ense CHANGE Program
Susan Hauck..... 206-205-3217

Food \$ense Harvest of the Season Program
Acacia Larson..... 206-205-3180

Soils, Compost and Worms in the Classroom
Darcy Batura 206-205-3130

Training Environmental Stewards
Tara Zimmerman 206-205-3203

Find It on the Net

Internet addresses found in this directory are listed below along with others that may be of interest.

Airport Aviation Education

kingcounty.gov/airport/

Arts, Culture and Heritage

4culture.org

Accessible Services – Transit

kingcounty.gov/kcdot (select Metro Transit)

Bike Program

kingcounty.gov/kcdot (select Metro Transit)

Bus and Alternative Travel Options

kingcounty.gov/kcdot (select Metro Transit)

Chinook Book™

chinookbook.net

Civil Rights

kingcounty.gov/civilrights

Class Act Newsletter

kingcounty.gov/solidwaste (select Education & Schools)

Emergency Preparedness

kingcounty.gov/prepare

Friends of the Cedar River Watershed

cedarriver.org/index.shtml

Friends of the Issaquah Salmon Hatchery

issaquahfish.org

Geographical Information System (GIS)

kingcounty.gov/gis

Grant Exchange

kingcounty.gov/environment

Greens Schools Program

kingcounty.gov/solidwaste (select School Recycling Assistance)

Green Teams

kingcounty.gov/solidwaste (select Education & Schools)

Groundwater Education Program

kingcounty.gov/environment

Household Hazardous Waste Mini-grants

kingcounty.gov/solidwaste (select Education & Schools)

In Motion!

kingcounty.gov/kcdot (select Metro Transit)

Institutional (I-Net) Program

kingcounty.gov/business/oirm/inet.aspx

Master Recycler Composter Program

kingcounty.gov/solidwaste (select Master Recycler Composter)

Mountains to Sound Greenway

mtsgreenway.org

Native Plant Salvage Program

kingcounty.gov/environment/animalsAndPlants.aspx

Natural Resources and Parks Publications

kingcounty.gov/environment/wlr/publications.aspx

Natural Resources and Parks School Resources

kingcounty.gov/environment/stewardship/teachers

Nature Vision

naturevision.org

Northwest Native Plant Landscaping Guide

kingcounty.gov/gonative

Parks Programs

kingcounty.gov/parks

Programs for Educators Directory

kingcounty.gov/environment/stewardship/teachers-students.aspx

Rideshare Services

kingcounty.gov/kcdot (select Metro Transit)

Solid Waste Division Schools Programs

kingcounty.gov/solidwaste (select Education & Schools)

Transit Field Trip Program

kingcounty.gov/kcdot (select Metro Transit)

Waste Reduction and Recycling Topics

kingcounty.gov/solidwaste

Wastewater Treatment Plant Tours

kingcounty.gov/environment/stewardship/teachers-students.aspx

Water and Land Resources Division Grant Programs

kingcounty.gov/environment

Water and Land Resources Division Publications

kingcounty.gov/environment/wlr/publications.aspx

Wheels to Water Program

kingcounty.gov/environment/stewardship/teachers-students.aspx

WSU King County Extension

king.wsu.edu

King County Executive

Ron Sims

King County Council

District 1 – Bob Ferguson

District 2 – Larry Gossett

District 3 – Kathy Lambert

District 4 – Larry Phillips

District 5 – Julia Patterson

District 6 – Jane Hague

District 7 – Pete von Reichbauer

District 8 – Dow Constantine

District 9 – Reagan Dunn

**King County**

Department of Natural Resources and Parks

Solid Waste Division

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Department of Public Health – Seattle and King County

David Fleming, MD, Director and Health Officer

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Programs for Educators Directory

2008-2009 School Year Edition

Programs for Educators

2008–2009 School Year Edition

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