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# RESOURCES FOR TEACHERS

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Interested in furthering your outdoor education knowledge? Here's a list of helpful resources.

## Online Resources:

### *National Science Digital Library*

The National Science Digital Library is a wonderful source of exceptional teaching materials for use in elementary (lower primary, upper primary), middle school, high school and even post-secondary school education. The site provides thoughtful curricular activities, lesson plans and instructor resources on numerous scientific topics. Searches for "trees," "forests," and related topics result in a rich variety of exceptional teaching materials. <https://nsdl.oercommons.org/>

### *Talk About Trees*

Talk About Trees is an Oregon-based initiative that seeks to educate students (K-8) on the value of trees and of renewable forestry. Educators are available to visit your classroom and lead students in hands-on activities. The program's offerings are free of cost, and can be integrated into your curriculum in combination with your time at Save The Giants park. More information can be found on their website: <http://talkabouttrees.us/>

### *Junior Forest Ranger Program*

The United States Forest Service offers its own educational program: *Junior Forest Ranger*. Learn how your students can become certified Junior Forest Rangers, and how you can obtain guidebooks and activities free of cost.

[http://www.fs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb5427855.pdf](http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5427855.pdf)

### *U.S. Forest Service Educator's Toolbox*

The United States Forest Service also offers a handful of other helpful resources for educators:

<http://www.fs.usda.gov/main/conservationeducation/educator-toolbox>

### *Canopy Analytics*

This interactive website provides exceptional mapping of Portland's trees. Information on tree heights and types, distances from buildings, heritage trees, and urban heat island can all be found on this site. <https://climatecope.research.pdx.edu/canopyanalytics/#12/45.4935/-122.6860>

### *Canopy Story*

This site provides a way to find significant trees in your neighborhood and to share your own story about a favorite tree. <http://canopystory.org/#12/45.4933/-122.6862>

### *Tree Inventory Project*

Learn about Portland's five-year project to inventory the city's street trees; get inventory reports, and learn how to help inventory Portland's park trees. <http://www.portlandoregon.gov/parks/53181>

### *Heritage Trees of Portland*

This website provides maps of Portland's heritage trees, heritage tree walks, and information regarding how to nominate a heritage tree. <http://www.portlandoregon.gov/parks/40280>

### *Heritage Trees*

David-Paul Hedberg. "From Stumptown to tree town: A field guide for interpreting Portland's history through its heritage trees." <https://www.pdx.edu/history/sites/www.pdx.edu.history/files/StumpTownToTreetown-15-forweb.pdf>

### *Friends of Trees*

Learn how you and your students can help improve the urban canopy and build tree-growing community in your own neighborhood. The site also includes videos on planting and caring for new trees. <http://www.friendsoftrees.org/>

## **Books for Classroom Use:**

*A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas.* National Research Council, 2012. ISBN 9780309217422

Glock, Jenna, Susan Wertz, and Maggie Meyer. *Discovering the Naturalist Intelligence: Science in the School Yard*. Chicago: Zephyr Press, 1999. ISBN 1569760896

Kirkland, Jane. *No Student Left Indoors: Creating a Field Guide to your Schoolyard*. Second edition. Lionville: Stillwater Publishing, 2011. ISBN 9780970975492

*Teaching Green—The Elementary Years: Hands-on Learning in Grades K-5*. Tim Grant and Gail Littlejohn, editors. Gabriola Island, BC: New Society Publishers, 2005. ISBN 9780865715349

## **Guides for Identifying Northwest Region Trees:**

"Learning to Identify Portland's Street Trees." *Street Tree Inventory Manual 2016*. Portland: City Nature Urban Forestry, Portland Parks & Recreation, 2016.

<https://www.portlandoregon.gov/parks/article/474469>

"Common Trees of the Pacific Northwest." College of Forestry, Oregon State University.

<http://oregonstate.edu/trees/>

Coombes, Allen. *Trees*. Smithsonian Handbooks. Second edition. New York: Dorling Kindersley, Inc., 2002. ISBN 9780789489890

Arno, Stephen, and Ramona Hammerly. *Northwest Trees: Identifying and Understanding the Region's Native Trees*. Seattle: Mountaineers Books, 2007. ISBN 9781594850417

Little, Elbert, Susan Rayfield, and Olivia Buehl. *National Audubon Society Field Guide to North American Trees -- Western Region*. New York: Knopf, 1980. ISBN 9780394507613

Petrides, George. *A Field Guide to Western Trees: Western United States and Canada*. Peterson Field Guide Series. Boston: Houghton Mifflin, 1998. ISBN 9780395904541

Sibley, David. *The Sibley Guide to Trees*. New York: Knopf, 2009. ISBN 9780375415197

## **Books about Forests:**

Jonnes, Jill. *Urban Forests: A Natural History of Trees and People in the American Cityscape*. 2016. New York: Viking Press, 2016. ISBN 9780670015665

*Urban Forests, Trees, and Greenspace: A Political Ecology Perspective*. Anders Sandberg, Andrina Bardekjian and Sadia Butt, editors. New York: Routledge, 2015. ISBN 9780415714105

Wohlleben, Peter. *The Hidden Life of Trees: What They Feel, How They Communicate -- Discoveries From a Secret World*. Jane Billingham, translator. Vancouver, BC: Greystone Books, 2016. ISBN: 9781771642484

*Urban Tree Management: For the Sustainable Development of Green Cities*. Andreas Roloff, editor. Hoboken: John Wiley & Sons, 2016. ISBN 9781118954584

*The Social Lives of Forests: Past, Present, and Future of Woodland Resurgence*. Susanna Hecht, Kathleen Morrison, and Christine Padoch, editors. Chicago: University of Chicago Press, 2014. ISBN 9780226322667

*Shading Our Cities: A Resource Guide for Urban and Community Forests*. Gary Moll and Sara Ebenreck. Washington, DC: Island Press, 1989. ISBN 9780933280960