

**AGENDA**  
**URBAN STE(A)M WORKSHOP**  
**October 19, 2019**  
**9am – 3pm**

- 9am – 9:30am                    **Introduction and warm up activity.**
- 9:30am – 9:55am                **“Channeling the Energy”**  
*Amy Mock, Mason Elementary*  
Learn proven techniques for turning a class of excited and energetic kids into highly focused learners in outdoor settings.
- 9:55am – 10:25am                **“Tree Gong”**  
*Neal Norton, GA Arborist Association*  
Mr. Norton has blended several Western martial and meditative arts (including Tai Chi) into a practice that helps center students and prepare them for focused outdoor learning. This exercise meets AKS requirements for development of various motor skills, movement concepts, physical fitness, personal and social responsibility, self expression, and enjoyment.
- 10:25am – 10:40am                **“Eye See a Tree”**  
*Tixie Fowler, GA Association of Conservation Districts*  
Participants will be given the tools to conduct an investigative activity that engages nature, scientific observation and descriptive language skills. Learning will be layered into remaining sessions to demonstrate the close connections between Language Arts and scientific standards.
- 10:40am – 11:10am                **“Do the Math”**  
*Chelsea York, GA Forestry Commission, Project Learning Tree Activity: PLT “How Big is Your Tree?” (p. 284)*  
Arborists and foresters use a variety of calculations to determine economic feasibility of a timber harvest, as well as the health of a forest or even just a particular tree. Discover ways to use a single tree on your campus to teach Math standards for all grades – students can calculate how many leaves they'll rake from their yard this fall!
- 11:10am – 11:25am                Break (return inside)
- 11:25am – 12pm                    **“Healthy Trees, Healthy Lives”**  
*Susan Granbery, GA Forestry Commission*  
Discover how student learning and performance in the classroom is connected to daily school yard experiences and why trees and nature are important to physical fitness, skin care, asthma, mental fatigue, attentiveness, and more. This presentation supports standards for Social Studies and Health, and is applicable to your entire community, including administrators, maintenance staff, faculty, parents and students.

- 12pm – 12:20pm Break, get lunches (working lunch)
- 12:20pm – 12:45pm **“Technology in the Trees”**  
*Chelsea York, GA Forestry Commission, Project Learning Tree*  
Learn about iTree, a free online tool that connects nature to Social Studies as well as exciting STEM-based learning. This app engages GPS-based technology to provide teachers with a variety of tools. Help students rapidly assess human and forest population information on a world-wide basis. Quantify the structure of, threats to, benefits of, and values provided by forest populations globally. Excellent for mapping a school campus to develop a “Green Campus Plan”, or exploring global forestation challenges in countries of study.
- 12:45pm – 1pm **“How to Think Like a Tree”**  
*Tixie Fowler, GA Association of Conservation Districts*  
This session will briefly explore biomimicry and how studying nature can support standards for engineering, physical science, fine arts and more.
- 1pm – 1:15pm **“Eye See Parts of a Tree: Part II”**  
*Tixie Fowler, GA Association of Conservation Districts*  
Review and discuss results of activity introduced earlier in day.
- 1:15pm – 2:15pm **Project Development**  
After a busy morning learning about new resources, tools and teaching strategies, participants will work in teams to apply their newfound knowledge towards developing ideas for PBL or lesson plans they can use in their own teaching.
- 2:15pm – 2:45pm **Project Sharing & Discussion**  
Teams will share outlines with group providing supportive feedback.
- 2:45pm – 3pm **Close and Collect Cool Swag!**