
Climate Change: Global Connections and Sustainable Solutions

*Facing the Future Workshop in Partnership with WSU Extension
and Snohomish County Surface Water Management
February 7th, 9:30-3 (1/2 hour lunch)
Location: Everett Transit University Center Room 212*

WORKSHOP DESCRIPTION

How do we teach about climate change in a manner that engages students in the content, encourages them to understand the issues from multiple perspectives, and empowers them to create their own solutions? In this workshop, you will experience hands-on lessons that demonstrate the interconnections between natural cycles & systems and human choices & actions using carbon footprint, emissions trading, and energy policy.

Climate change is an interconnected global issue and will be one of the defining topics for the 21st century. *Facing the Future* has developed a standards-based, integrated curriculum that widens and deepens peoples' understanding of climate change. Integrating the diverse components of climate change enables learners to work through the inquiry process, evaluate information, synthesize diverse perspectives, and develop reasoned conclusions about climate change based upon their own analyses.

This session will provide hands-on, interactive lessons for teachers to take part in and learn the science teaching skills and content knowledge necessary to teach about climate change and its interconnections to the environment, society, and the economy.

All workshop participants will receive a CD that includes middle and high school units on climate change. Clock hours are available at no extra cost for those attending the workshop.

WORKSHOP OUTCOMES

Workshop participants will:

- Understand the science behind the greenhouse effect and changing temperatures
- Learn about the carbon cycle and carbon footprints
- Experience the effects of climate change on societies in different locations
- Describe market-based solutions to climate change
- Debate climate change policy from multiple viewpoints
- Assess their carbon footprint
- Develop personal solutions to climate change
- Receive free climate change curriculum
- Take part in lessons that meet the National Science Education Standards and National Council for the Social Studies Standards

DRAFT AGENDA

- 1) Introduction
 - a) Workshop overview
 - b) About *Facing the Future & Climate Change unit*
 - c) Defining Global Issues and Sustainability
- 2) It all starts with “C” – Carbon
 - a) Video: “It’s All About Carbon”
 - b) **Do** Lesson #1 “The Carbon Link” & “Greenhouse Gas Investigations (p. 10)
 - c) **Explain** Lesson #2 “Carbon Dioxide Trends” (p. 18)
 - d) Video: “It’s All About Carbon”
- 3) Effects and Connections
 - a) **Explain** Lesson #3 “Effects of Climate Change on Living Things” (p. 24)
 - b) **Explain** Lesson #6 “Changes All Around” (p. 52)
- 4) Human Choices
 - a) **Do** Lesson #4 “It All Adds Up” (p. 34)
 - b) **Do** Lesson #5 “Energy Exploration” (p. 40)
 - c) Video: “It’s a Jungle Out There”
 - d) **Do** Lesson #8 “Shopping Heats Up” (p. 75)
- 5) Carbon Regulation
 - a) **Do** Lesson #7 “How Much Does Carbon Cost” (p. 65)
- 6) Solutions and Action
 - a) Problems as opportunities
 - b) **Do** Lesson #9: “Energy Policies for a Cool Future” (p. 83)
 - c) Small group discussions & large group sharing
- 7) Closing: Where to get more resources and opportunities. Share information about 4-H, WSU Extension, Snohomish County and Seattle’s Cool School Challenge.