

# At Your Service

## National Science Education Standards Addressed in This Article

National Science Education Standard	Where and How the Standard Is Addressed
<b>Abilities necessary to do scientific inquiry</b>	Thinking About Science: Natural resource managers rely on scientists and scientific models. Introduction Reflection Section: Identifying research questions. Methods: Using models. Methods Reflection Section: Explaining models; thinking critically about evidence and explanation. Findings: Using data to create a model (map). Findings Reflection Section: Explaining models. Discussion and Discussion Reflection Section: Thinking critically about data and evidence. FACTivity: Creating and using models.
<b>Understandings about scientific inquiry</b>	Methods: The use of models; data collection; figure 7 (quantifying variables); using mathematics and equations. Methods Reflection Section: Explaining from evidence. Discussion: Constructing arguments from evidence; using models.
<b>Populations and ecosystems</b>	What Are Ecosystem Services? Figure 2: Identifying ecosystem services. Figures 3 and 4: Ecosystem models. FACTivity: Investigating the schoolyard as an ecosystem.
<b>Structure of the Earth system</b>	Figure 8: Watersheds.
<b>Diversity and adaptations of organisms</b>	Figure 4: How ecosystems respond to human activity.
<b>Populations, resources, and environments</b>	Introduction, Methods, figure 4: How humans may affect ecosystems. FACTivity: Identifying how people affect schoolyard ecosystems.
<b>Science and technology in society</b>	Findings and Discussion Reflection Sections: Using models can help managers make better decisions.
<b>Science as a human endeavor</b>	Meet the scientists. What Kind of Scientist Did This Research?
<b>Nature of science</b>	What Kind of Scientist Did This Research?

## Education Standards for Social Studies Addressed in This Article

National Curriculum Standards for Social Studies	How and Where the Standard is Addressed
Culture	Meet the Scientists: Native Alaskans ecosystem knowledge based on experience.
Time, continuity, and change	Methods, figures 3 and 4: Changing ecosystems over time.
People, places, and environments	Introduction, Methods, figures 3 and 4: Human use of ecosystems and its impact.
Production, distribution, and consumption	What Kind of Scientist Did This Research? Studying the relationship between natural ecosystems and human economies. Introduction, Methods, figures 3 and 4: Human use of ecosystems and its impact.
Science, technology, and society	Entire Article: The use of models to help manage human impact on ecosystems.