**Advanced Learners**

The Water Cycle

* **Lesson:** [The National Repository of Online Courses](http://www.montereyinstitute.org/courses/AP%20Environmental%20Science/nroc%20prototype%20files/coursestartc.html" \t "_blank) has a quick intro into the Water Cycle in its AP Environmental Science course. See Unit 1, Chapter 2, Lesson 7.
* **Lesson:** [Good example of a lesson](http://sitemaker.umich.edu/bdflemin/nutrient_cycling_lesson_plan" \t "_blank) that links the water, nitrogen, carbon, and phosphorus cycles.

Rivers and Ecosystems

* **Lesson:** The Berkeley Ecology Center’s [Terrain for Schools (TFS)](http://www.ecologycenter.org/tfs/lesson.php?id=13470" \t "_blank) also has a unit on groundwater and saltwater intrusion.
* **Lab:** Related to the above is a [lesson on groundwater plumes](http://www.ecologycenter.org/tfs/lesson.php?id=13473" \t "_blank) that works great in a chemistry classroom.
* **Lesson:** [The National Repository of Online Courses](http://www.montereyinstitute.org/courses/AP%20Environmental%20Science/nroc%20prototype%20files/coursestartc.html" \t "_blank) discusses different types of water pollutants in their AP Environmental Science course. See Unit 4, Chapter 7, Lessons 78.

Rivers and People

* **Lesson:** A language-arts course by [National Geographic Xpeditions](http://www.nationalgeographic.com/xpeditions/lessons/14/g912/kissimmee.html" \t "_blank) on the Kissimmee River, Florida, and the larger impacts of human actions.
* **Lesson:** An NSF lesson plan that allows students to [role-play different stakeholders](http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=494&id=494" \t "_blank) involved in a dam removal project on the lower Snake River.

Protecting River Resources

* **Lesson:** A set of lesson plans using the [National Geographic web resources](http://www.nationalgeographic.com/geography-action/conservation.html" \t "_blank) that explore conservation.
* **Lesson:** TFS has a [social studies unit on watershed management](http://www.ecologycenter.org/tfs/lesson.php?id=13481" \t "_blank) that allows students to seek solutions that recognize the interconnectedness of water and forests.
* **Discussion:** The TFS offers a [discussion-based unit on water rights, privatization, and resource management solutions,](http://www.ecologycenter.org/tfs/lesson.php?id=13344" \t "_blank) which can be individualized to the local school or community.
* **Discussion:** A great social studies unit to do in conjunction with the above is the [unit on water allocation in real-world contexts.](http://www.ecologycenter.org/tfs/lesson.php?id=13475" \t "_blank)
* **Lesson:** [The National Repository of Online Courses](http://www.montereyinstitute.org/courses/AP%20Environmental%20Science/nroc%20prototype%20files/coursestartc.html" \t "_blank) discusses different types of water resource management in their AP Environmental Science course. See Unit 3, Chapter 9, Lessons 43-44.