

Apps & Games for Environmental Engineering

National Environmental Education Week's 2014 theme is **Greening STEM: Engineering a Sustainable World**, part of EE Week's Greening STEM focus. Discover new, digital resources that explore the application of engineering to sustainable solutions for a healthier planet and healthier people.



Biobots Under Sea Rescue

Grades K+ / iPad

Biobots Under Sea Rescue lets young students design an underwater rescue robot inspired by nature's super animals. In this game, students learn about different marine creatures through videos and animations. Students apply the learning by choosing the right combination of robotic systems for a rescue mission.

Ansel and Clair: Little Green Island

Grades 2-4 / iPhone, iPod Touch, iPad

Ansel and Clair: Little Green Island is an adventure game that helps kids grow in environmental awareness. This app provides an overview of environmental issues, particularly pollution, for younger students. Students not only learn about these issues, but must find solutions. The interactive gameplay and real-world examples provide in-depth learning.



SimCityEDU: Pollution Challenge!

Grades 5-8 / Windows, Mac

With *SimCityEDU*, the environmental impact of cities, and ways to mitigate this impact through sustainable planning, are the major focus. This classroom-ready tool has built-in lessons and teacher resources that remove a lot of the challenge of integrating games into instruction.

Enercities

Grades 6-12 / Windows, Mac

Enercities lets students take charge of planning a sustainable, 200 person community of the future. Students build a city, placing power grids, housing developments, industrial zones and parks. By responsibly managing a growing community, students learn about resource scarcity, the environmental impact of development, and sustainable building practices.



Stop Disasters!

Grades 7-12 / Windows, Mac

Stop Disasters! is a serious simulation game published by the United Nations and International Strategy for Disaster Reduction. The game shows students the kinds of natural disasters linked to environmental issues. Each round presents a new challenge, which typically involves building shelter, defending resources, and developing land into infrastructure that yields added safety or contributes to the area's economy.

Learn more at eeweek.org



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