

Groundwork San Diego: EarthLab | Global TIES

The center strives to bring about the sustained regeneration, improvement and management of the physical environment through the development of community-based partnerships which empower people, businesses, and organizations to promote environmental, economic, and social well-being.

Water Conservation & Quality Hands-On Activities

Mission:

To provide students with an interactive way to learn about water conservation & quality via activities that allow them to identify a problem and design a solution for it.

Design Overview:

- Three activities that teach the students about water conservation and/or water quality
- Tabletop, low-cost versions of these activities that can be worked on by two to three students over three days

Build Overview:

- curricula and material for activities
- step-by-step guide for doing each activity
- worksheets for students to do in-class
- follow-up questions and activities



UC San Diego
Jacobs School of Engineering

Home Energy Audit Web Application

Mission:

To provide students with an online web application that can be used in conjunction with their assignments about energy to learn how using different electronic devices in a home can change the amount of energy needed to power it.

Design Overview:

- Students will have a username and password to log into a generic SDGE website that has generic home energy data
- Data can be manipulated by students who input changes in devices being used within the home Ex. plugging in a phone to charge, turning off all lights

Build Overview:

- Web app
- Tools: MySQL, Apache, digitalocean
- Languages: Javascript, PHP, HTML