

## LEGO eLAB Renewable Energy

**Objectives:** As a result of this lesson, students will understand the benefits and technology of renewable energy. Students will be able to construct waterwheels, windmills, and other energy related technology and carryout experiments to see the capabilities of renewable resources.

This eLAB Renewable Energy Set investigates concepts of energy, electricity, and the environment. Students will be introduced to solar, wind and water energy, explore the capabilities of each, as well as understand types of energy and transformations from mechanical energy to electrical energy. This kit comes with the Renewable Energy set as well as the Activity Pack. There are 49 total activities which are divided into two different levels to be taught sequentially or individually. These lessons are for middle and high school level learners. These kits are designed to be used among 2-4 students and educators may borrow up to 12 kits.



**This kit includes:**

- 12 Renewable Energy Sets. Each includes:
  - Lego pieces
  - Inventory lists with pictures
  - Instruction Booklets
  - Renewable Energy Activity Pack

\*This kit must be returned organized. To purchase lost or broken pieces or for more information about this kit, visit the Lego Education website at <http://www.legoeducation.us/>