

**The Environmental Center**, in partnership with the Bend Energy Challenge, presents a new series focused on Energy, ways we use it, how we use resources to generate electricity, and how to be more efficient with its use. This energy series helps clarify energy concepts and the impact of energy use on our environment and community.

Classroom presentations last between 45 and 60 minutes.



### Intro to Energy

Energy is defined as the ability to do work. Students will explore what that means and explore various energy sources, renewable and non, kinetic and potential and learn how energy is transformed. Students will compare the sources of energy used in the country and in Oregon.

### Creating Electricity

Electricity is a part of all of our lives at home and at school. When electrons move through a circuit, they do work for us. Students will use batteries and wires to explore the movement of electrons in action. They will then review the energy sources and will be able to describe how we use energy sources to create electricity to power our homes and schools.

### The Energy We Use

We use energy in our homes every day. Our homes are filled with appliances that harness electrical energy to work for us. Students will investigate the energy use in their homes and translate that into saving money on power bills in the homes through an experiment about the differences between incandescent, CFL and LED lights. Students will perform an informal energy audit in their homes.

### Household Conservation and Efficiency

In this final lesson, students will discuss ways to reduce energy use in homes and schools based on results from the household audits. Students will learn about conservation and efficiency to come up with ways to reduce energy waste in schools, homes and the city. They will learn about the Bend Energy Challenge and how to get involved.

For more information or to schedule, contact:



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