

## North American Wood Pole Council

# *Lesson Plan* Electricity from Tree to Me

<b>Grade Level:</b>	K to 6 <sup>th</sup>	<b>Length of Time:</b>	45 – 60 minutes
<b>Subject:</b>	Environment, Safety	<b>Purpose:</b>	Classroom instruction or small group

### **Common Core Alignment**

*CCSS.ELA-Literacy.SL.3.1* – Engage effectively in a range of collaborative discussions (one-on-one, in groups and teacher-led) with diverse partners on age-appropriate topics and texts, building on others’ ideas and expressing their own clearly.

### **Learning Objectives and Outcomes**

Students will be able to describe how utility poles bring electricity to homes, schools and businesses and understand important safety information about overhead electrical lines.

### **Purpose for Lesson**

This lesson provides students an opportunity to see how utility poles contribute to providing electricity. Students will learn how wood utility poles are made from trees, which are renewable and sustainable. The lesson also defines important actions for students to ensure their safety by avoiding contact with any power line.

### **Materials Needed**

- Electricity from Tree to Me coloring book
- Crayons or colored pencils

### **Procedure**

#### *Opening to Lesson*

Distribute the coloring book to each student. Start the lesson by discussing how utility poles are found in every community. These poles have been used for more than a century to bring electricity to power many aspects of everyday life, from lights and heat to computers and mobile phones.

Lead students in a discussion on where utility poles can be found in their community.

### Guided Practice

Review the text on each page of the book. Read each page to the students and comment on the elements in each drawing. Or assign a page to each student to read aloud.

Review the word search on Page 9 of the book and assign for independent completion or schedule a time for finding each word in the chart.

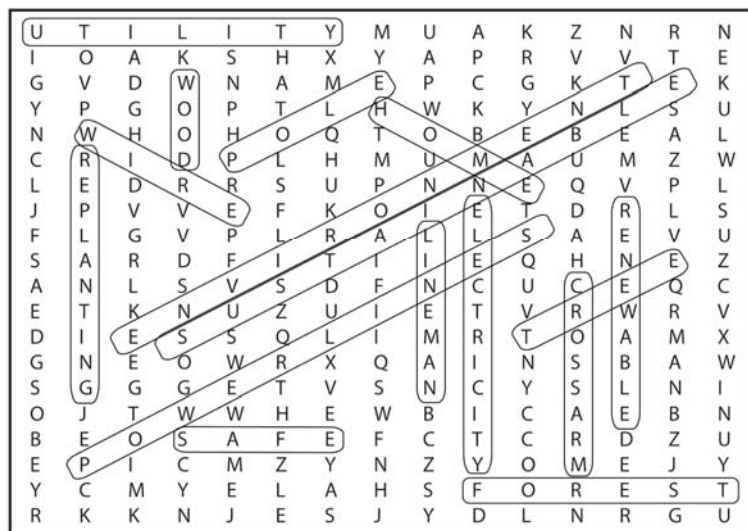
### Independent Practice

Read and explain the text on each page of the book. Instruct students to color one or more pages and complete the word search on Page 9, either in the classroom or to do at home.

### Discussion Topics/Questions

- How tall and how old are trees that are made into utility poles?
- Why are wood poles considered sustainable?
- What do linemen do when they work with a utility pole?
- What should you do if you see a pole and lines on the ground?
- What things should be kept away from overhead power lines? Why?

### Electricity from Tree to Me



### Assessment and Evaluation

Students will be asked to contribute in a class discussion and explain how utility poles help bring electricity where it is needed. Students will explain what they should do if they see a downed utility pole or wire.

### Additional Resources

North American Wood Pole Council – [www.WoodPoles.org](http://www.WoodPoles.org)

- How Wood Poles are Made
- Service Life of Wood Poles
- Wood Poles and the Environment

Electrical Safety Foundation International – [www.esfi.org](http://www.esfi.org)

- It's Electric! A Fire Prevention and Electrical Safety Program

National Energy Foundation – [www.energysafekids.org](http://www.energysafekids.org)

- Energy Safe Kids Curriculum for Electric Safety