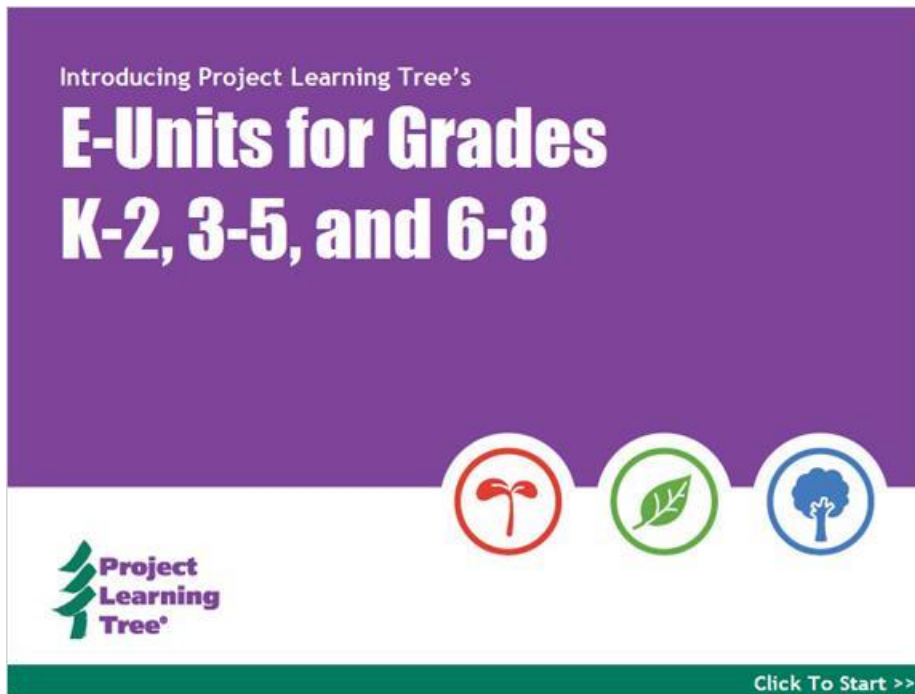


# Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

## 1. Title Screen

### 1.1 Title Screen



**Narration:**

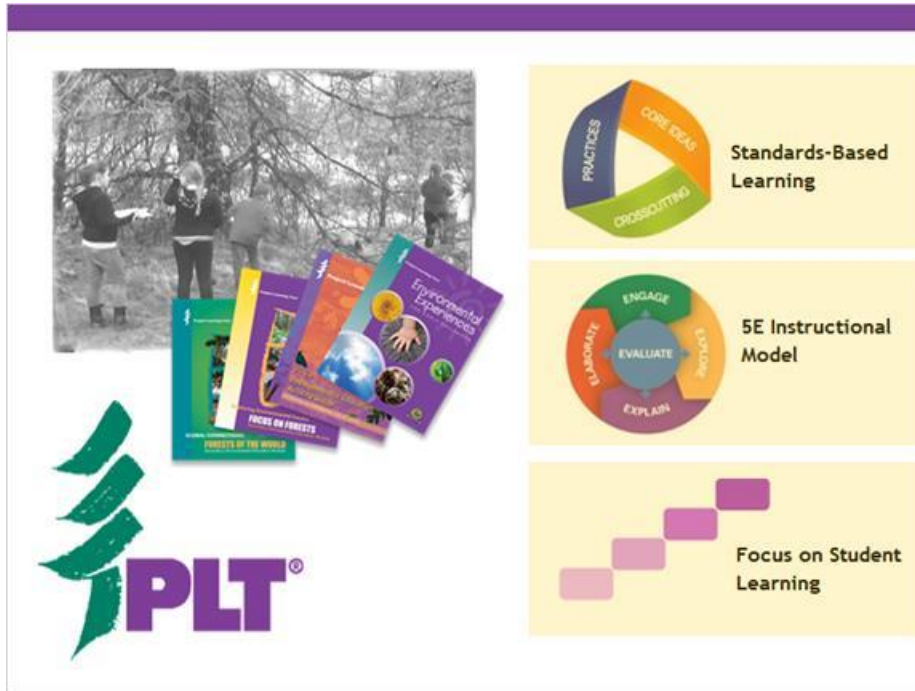
[music]



# Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

## 2. Introduction

### 2.1 PLT and Environmental Education



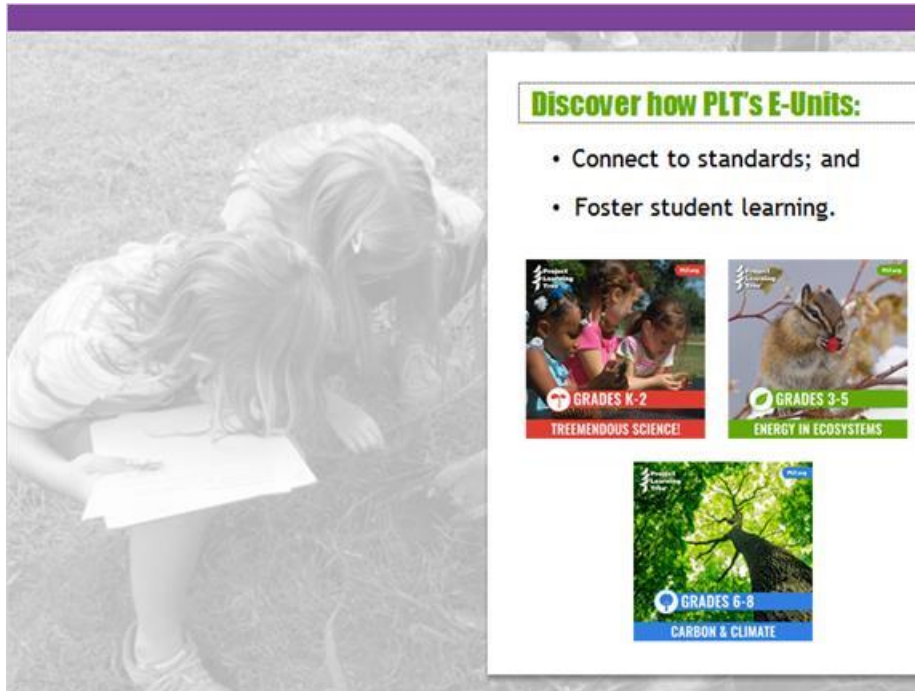
#### Narration:

Project Learning Tree helps educators across the United States and the world integrate environmental education into their teaching. Our award-winning materials help busy educators - like you! - meet changing standards, adopt flexible and evolving instructional approaches, and make learning relevant to students wherever they are.



# Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

## 2.2 Discover PLT's E-Units



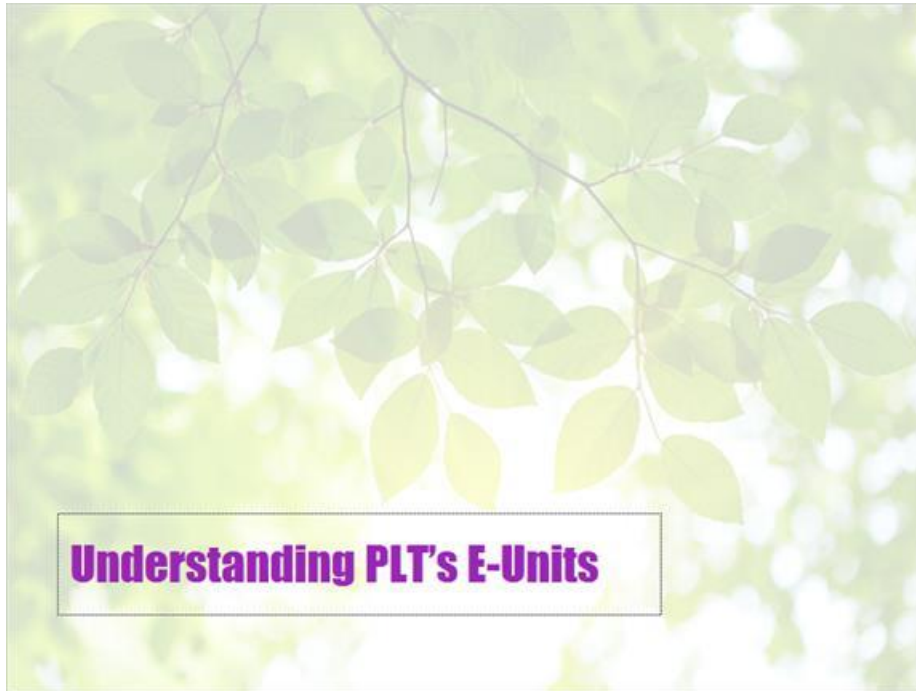
### Narration:

In this short trailer, you will discover how you can use our E-Units to teach to standards and engage your students.

## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 3. Understanding PLT's E-Units

#### 3.1 Scene Title





**Narration:**

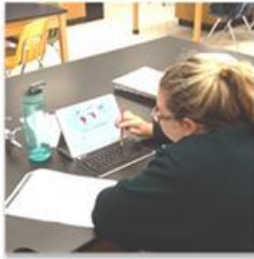
[no audio]

## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 3.2 What is an E-Unit



Students measure a tree to calculate carbon



Students research climate change over time

#### Narration:

An E-Unit is a collection of activities focused on a given topic that promotes hands-on student learning. E-Unit activities might prompt students to collect data about their environment, research a topic, create a model, apply what they have learned in their community, and more.

## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 3.3 PLT's E-Units and Standards

**PLT's E-Units:**

**GRADES K-2**  
TREEMENDOUS SCIENCE!

**GRADES 3-5**  
ENERGY IN ECOSYSTEMS

**GRADES 6-8**  
CARBON & CLIMATE

**Build around Next Generation Science Standards (NGSS)**

**Align with Common Core Standards (CCSS)**

**Align with College, Career, and Civic Life (C3) Framework for Social Studies**


#### Narration:

PLT's E-Units are constructed around targeted Performance Expectations within the Next Generation Science Standards, or NGSS. PLT's E-Units also align with Common Core State Standards for English Language Arts and Math, and with the College, Career, and Civic Life, or C3, Framework for Social Studies.


# Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

## 3.4 Integrated Standards


**PLT's E-Units highlight connections to:**



**Next Generation Science Standards (NGSS)**



**Common Core Standards (CCSS)**



**College, Career, and Civic Life (C3) Framework for Social Studies**

**What Is Climate? — Overview**

Students explore the concept of climate as they examine global climate patterns and the relationship between temperature, precipitation, and the world's forests.

**Learner Objectives**

- Students will explore the differences between weather and climate.
- Students will interpret maps to identify global climate patterns.
- Students will analyze temperature and moisture data patterns to determine their relationships to ecological zones and forest distribution.

**Standards**

Page	Section	Standard
Background		<b>NGSS Disciplinary Core Idea, MS-ESS2.D – Weather and Climate:</b> Weather and climate are influenced by interactions involving sunlight, the ocean, the atmosphere, ice, landforms, and living things. These interactions vary with latitude, altitude, and local and regional geography, all of which can affect oceanic and atmospheric flow patterns.
Doing the Activity	Step 4	<b>NGSS Disciplinary Core Idea, MS-ESS2.D – Weather and Climate:</b> Weather and climate are influenced by interactions involving sunlight, the ocean, the atmosphere, ice, landforms, and living things. These interactions vary with latitude, altitude, and local and regional geography, all of which can affect oceanic and atmospheric flow patterns.
Doing the Activity	Step 8	<b>C3 Framework, Dimension 2: Geography.10.6-8.</b> Analyze the ways in which cultural and environmental characteristics vary among various regions of the world.

### Narration:

Each E-Unit includes a color-coded table that shows the educational standards it supports: red for NGSS, purple for Common Core, and green for the C3 Framework. Standards connections are also highlighted on the web pages of each activity. Simply hover your mouse over colored text to view them!



## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 4. Teaching with PLT's E-Units

#### 4.1 Scene Title



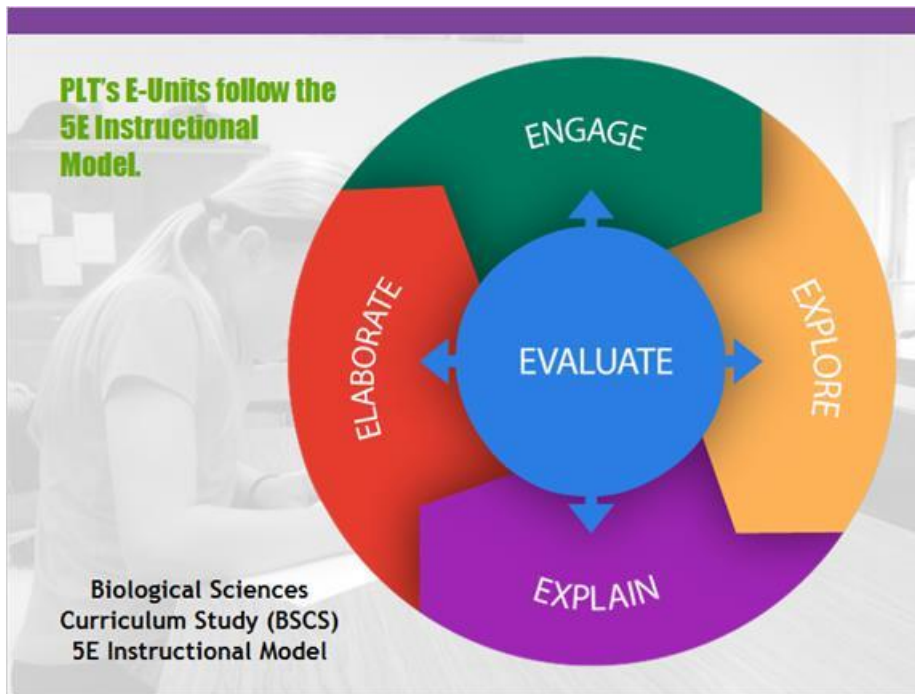
**Narration:**

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## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 4.2 The 5E Instructional Model

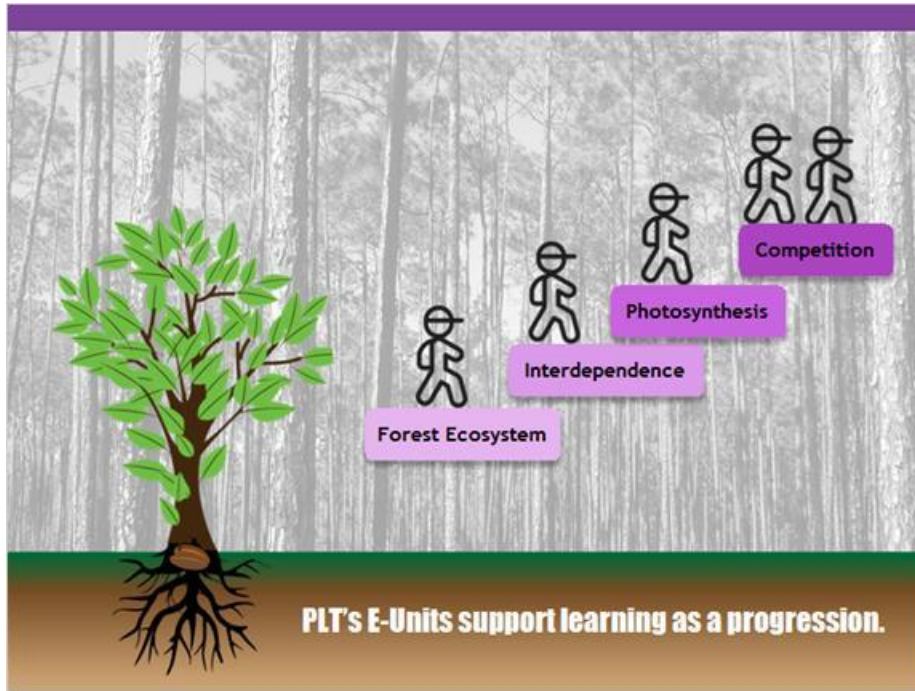


#### Narration:

Each E-Unit is designed around the 5E Instructional Model developed by the Biological Sciences Curriculum Study. The 5E model fosters science learning through a planned sequence of instruction. The five phases of the model - Engage, Explore, Explain, Elaborate, and Evaluate - help students develop their understanding of science concepts.

## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 4.3 Learning Progressions

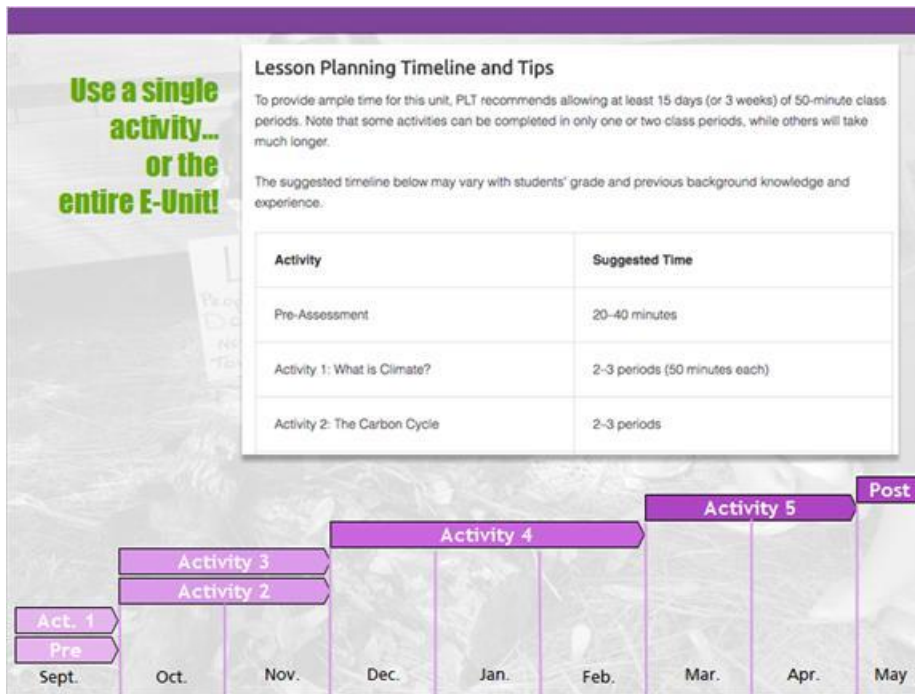


#### Narration:

E-Units support learning as a developmental progression. The activities start with students' initial conceptions about the E-Unit topic and build on them, moving toward a deeper and broader understanding.

## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 4.4 Lesson Planning Timeline and Tips



#### Narration:

Each E-Unit is geared for a specific grade-level band: kindergarten through second grade, third through fifth grade, or sixth through eighth grade. Each comes with a suggested timeline, the estimated duration of each activity, and activity frequency. This approach supports learning as a progression and helps teachers plan. Although the E-Unit is designed as a cohesive unit, the activities can be done individually.

## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 5. Getting Started with PLT's E-Units

#### 5.1 Scene Title

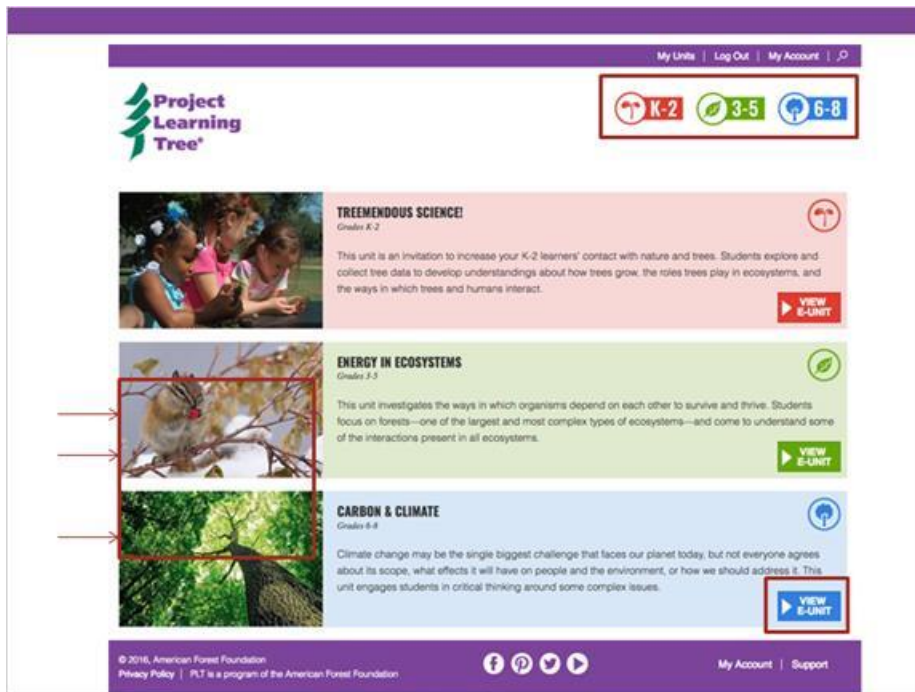


**Narration:**

[no audio]

# Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

## 5.2 Navigating the E-Units



### Narration:

PLT's website makes it easy to access E-Units and their resources. First, select your teaching level, then choose an E-Unit to view. You can select the E-Unit's pre-assessment, activities, or post-assessment from the detailed navigation menu. Within an activity, you can navigate through the sections, such as the Overview and Doing the Activity.



## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 5.3 Student Discussion

**PLT's E-Units encourage student discussion and participation.**



**Schoolyard Safari**  
from *Treemendous Science!*



**Web of Life**  
from *Energy in Ecosystems*

#### Narration:

E-Units provide discussion strategies to maximize participation, focus student attention, and engage students. General discussion questions are provided in the Background screen. You can also find sample discussion questions in the Doing the Activity screen.

## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### *5.4 Connect with Us*



Collaborate with other educators on PLT's E-Units!



#### **Narration:**

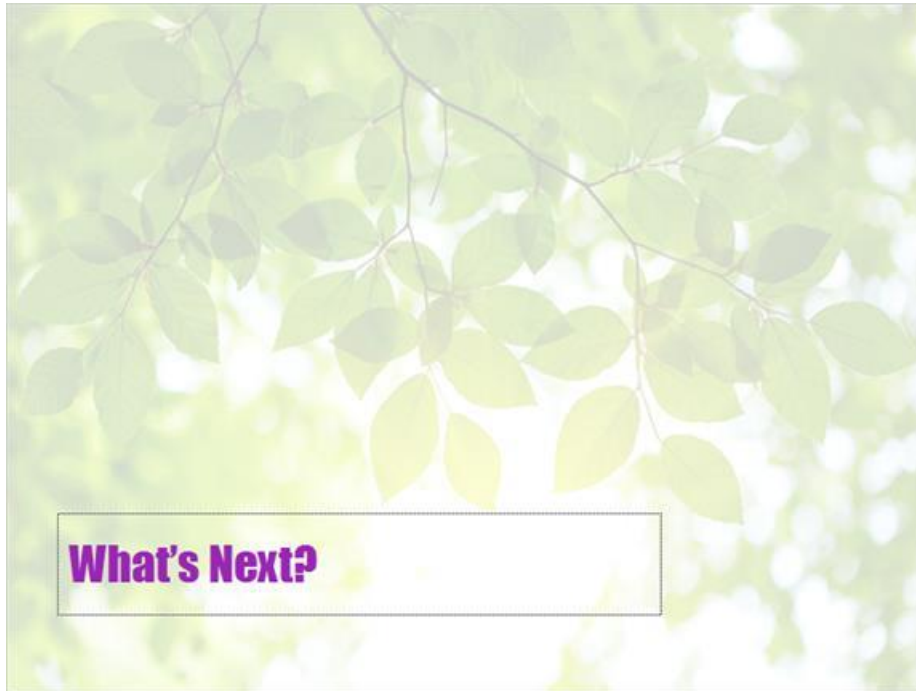
Using PLT's social media channels, you can share resources or activity modifications with us at PLT and with other educators. You can also get ideas about how to modify the E-Unit activities to your situation and students.



## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 6. Conclusion

#### 6.1 Scene Title




**Narration:**

[no audio]

# Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

## 6.2 Summary



Adopt a Tree from Tremendous Science!

Every Tree for Itself from Energy in Ecosystems

Climate Time Machine from Carbon & Climate

**E-Units are designed to help you:**

- ✓ Align with standards, and
- ✓ Use 5E model to:
  - Enhance science learning,
  - Maximize student understanding through learning progressions.

**Explore the E-Units at [plt.org](http://plt.org)**

### Narration:

PLT's E-Units are innovative tools that help educators align to standards, foster science learning, and provide cohesive learning activities that build on each other. You can use whole E-Units as they were designed, select a smaller set of activities to facilitate, or incorporate individual activities into your existing curriculum.

Ready to dive in? Explore the E-Units and continue your PLT journey.

## Introducing PLT's E-Units for Grades K-2, 3-5, and 6-8

### 6.3 End Screen



**Narration:**

[music]

