# FACTivity

Time Needed

One class period

Materials

- Graphic organizer on page 78
- Writing utensil

In this FACTivity, your class will consider the tradeoffs discussed in this article and work toward a solution. A tradeoff is any situation where making one choice to gain something means losing something else. All of the available choices involve gaining or losing a benefit.

> **The question you will answer in this FACTivity is:**
> How can we address the tradeoffs between planting trees to address climate change and protecting current wildlife habitat?
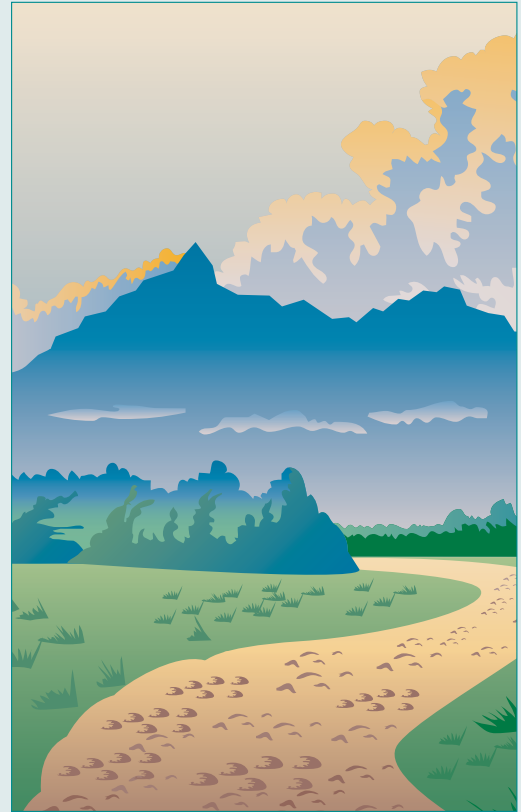
Methods

Your teacher will separate your class into groups of four students. Each group will read the following paragraph:

> **Based on the research in the article you just read, the situation where forest landowners might choose to replant their forests in a different species will result in less habitat for important wildlife species. These forest landowners, however, will gain additional profit and more carbon will be sequestered. These choices result in both public gain and loss, and private landowner gain.**

In your small group, identify the benefits of each choice and who benefits. Write your answers in the graphic organizer. Then, hold a small group discussion and look for ways to maximize the benefits for everyone to the degree possible.

Write your solution in the graphic organizer. Then, share your solution with the class and hold a class discussion.

Graphic Organizer

Names:

Hint: There may be fewer or more than three beneficiaries. A beneficiary is one who receives a benefit.

Describe the benefit	Who Benefits?
Describe the benefit	Who Benefits?
Describe the benefit	Who Benefits?

Lend a Hand—Care for the Land!

One way you can lend a hand and care for the land is by reducing your carbon footprint. A carbon footprint is the carbon dioxide emissions from the actions associated with a person. For example, when someone drives a car, the car creates carbon dioxide emissions. The carbon dioxide emissions create greenhouse gases that contribute to global warming and climate change. Here are some simple things you can do to reduce your carbon footprint:

Shop and buy locally when you can.

Walk or bike to places instead of using a car.

Turn off lights and unplug devices when you are not using them.

Use cold water for washing your clothes.

Keep stuff out of the landfill by recycling and reusing when you can. You can even recycle clothing by donating gently used clothing and shopping at thrift stores.

You can learn more about your carbon footprint and how to calculate it by visiting https://www3.epa.gov/carbon-footprint-calculator/. Watch "NASA's Earth Minute: Gas Problem" to learn more about greenhouses gases and carbon dioxide: https://youtu.be/K9kga9c0u2l.