

## Lab-Forest Dilemmas MAKEUP ASSIGNMENT

Remember: As per GHHS Policy, you have two days for each day absent to makeup assignments.

### Background:

In North Carolina, 50 million tree seedlings are planted annually and nature plants millions more. It is a 6 billion dollar industry for our state. Forest management by all landowners (public and private) is changing to reflect an understanding of the forest as an ecosystem that contains many interacting parts, all of which need to be considered to have a healthy forest. One tool of forest managers is fire. Instead of trying to put out every fire, foresters now know that fire is part of the forests' natural cycle, and may use it in managing the forest.

North Carolina's forests have a variety of owners and managers, including the federal governments (Forest Service, Bureau of Land Management), state government (North Carolina Forest Service), private industry, and private non-industrial landowners. Each of these land managers must work with the others to sustain the best possible management of North Carolina's collective forests. Best Management Practices are used to protect water quality and maintain healthy forests to sustain the many benefits desired from our forests, not just now, but for hundreds of years to come.

### What We Did in Class:

Students played a game in which they took on the character of Forester, Wildlife Biologist, CEO, etc. Throughout the board game, students accumulated money and SP (Sustainability Points) in their effort to get rich, be sustainable, or both! Ultimately, students had some fun and learned about different practices in sustainable forestry.

### Analysis Questions:

Watch the video <http://www.bozemanscience.com/ap-es-017-forestry-rangelands> and answer the following

1. Name one advantage and one disadvantage of clear cutting.
2. What technology is used in the saw mill that you might not have expected?
3. Name the five benefits of forests discussed in the video.
4. What are two examples of old-growth forests?
5. What percentage of old-growth forests in the United States have already been harvested?
6. The 1900s in the United States led to what practice that was ultimately unsustainable?
7. What are the three goals of the National Forest Service?
8. Name the important concept put forward by Garrett Hardin.
9. What are three possible effects of unsustainable rangeland management?
10. What is the BLM?
11. Explain Ostom's Law.
12. What have you learned from this makeup lab?