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What Goes Around Comes Around: The Carbon and Nitrogen Cycle

1. Introduction of PINEMAP and me. - **5 min.**
 - a. What PINEMAP is and importance of it.
 - b. What my internship included.
 - c. Where I'm from and background.
2. Introduction to the Nitrogen Cycle. - **20 min**
 - a. Basic overview of the components.
 - b. Show examples of nutrient rich and poor soil.
 - i. Sand, potting soil, clay, and possibly some core samples.
 - c. Illustrate the effects of fertilizer on plants.
 - i. Show plants grown with fertilizer and those without
 - d. Importance in production forestry.
3. Introduction to the Carbon Cycle. - **20 min**
 - a. What is carbon?
 - b. General concepts of the carbon cycle.
 - c. What roles do trees play in the cycle?
 - i. Photosynthesis, respiration, and combustion.
 - d. Pass around tree disks.
 - e. Take tree cores as an activity.
 - f. Explain the formation of rings and their relationship to carbon.
4. Conclusion - **5 min**
 - a. Go back over the importance of forestry and the cycles.
 - b. Describe some of the local opportunities in forestry.
 - c. More Q&A opportunities.