

Brittany Baggett

Florida Benchmarks #:SC.8.L.18.3

“Carbon: Where It’s Been and Where It’s Going”

- I. Introduction- **5 minutes**
 - a. About me
 - b. What PINEMAP is
 - c. Goals of PINEMAP
 - d. My role with PINEMAP this summer
- II. The carbon cycle- **15 minutes**
 - a. Roles of carbon in everyday life
 - b. Carbon as carbon dioxide
 - i. Needed for basic processes of life
 - ii. Keeps the Earth from freezing
 - iii. Excessive amounts cause climate change
 - c. Overview of the cycle
 - i. Photosynthesis
 - ii. Combustion
 - iii. Respiration
 - d. Role of forests
 - i. Sequestering carbon
 - ii. Deforestation
- III. Carbon cycle activity- **25 minutes**
 - a. Students will act as a carbon atom and visit different stations that represent carbon storage. They’ll pick a card that tells them where they will be traveling to next and how they’ll be getting there. They will put the information into a worksheet so that they will understand the “big picture” concept of the carbon cycle.
- IV. Wrap up- **5 minutes**
 - a. Take any questions
 - b. Why carbon is important
 - c. Ask students to give examples of carbon movement that they learned from the presentation

Total time: 50 minutes