Check your standards. How can you chunk these together? In what order will you teach these? (An example has been added in italics.)

Semester W	Week(s)	Standards:	How will you introduce the material?	What activities will help students process this material? (What resources are available?)	Notes: What worked? What didn't?
1 2-	2-3	S.ENV.1: Compare and contrast the rate elements cycle through the ecosphere, describing natural and human influences on reaction rates: Carbon Nitrogen Phosphorus Oxygen Sulfur S.ENV.2: Explain how the chemical components of biological and physical processes fit in the overall process of biogeochemical cycling such as photosynthesis, respiration, nitrogen fixation, or decomposition. S.ENV.5: Differentiate various means of generating electricity in terms of the transformation of energy among forms, the relationship of matter and energy, and efficiency/production of heat energy.	Lecture with focused notetaking on the following essential questions: What are systems? How do feedback loops affect systems? Explain the importance of nitrogen, oxygen, carbon and hydrogen to life. What are the first and second laws of thermodynamics? Explain the processes of photosynthesis and respiration. What do ecologists mean when they say there is no "away" to throw things to, and that everything in the universe tends to slow down and fall apart? Why are big, fierce animals rare? What qualities make water so unique and essential for life as we know it? How why do elements such as carbon, nitrogen,	Lab: Pellet Dissection Lab: Construct a Food Web (Modeling) Lab: Investigate Habitat Size and Species Diversity Gallery Walks on Carbon/Oxygen, Nitrogen, Phosphate, and Sulfur Cycle including Crosscutting Concepts on Analyzing Instability Optional Homework:	This took longer than 2 weeks. Constructing a Food Web can be assigned as mandatory homework which allows for the additional time needed for the gallery walk. Half of the class took advantage of the optional homework opportunity. The collaborative chapter assessment worked well for this class. Students finished this in a timely manner and had wonderful discussions. (Students with allergies struggled with the pellet dissection/ alternative assignment may be needed for students with severe allergies.)

S.ENV.8: Create food web diagrams to explain how adding and/or removing a species from an ecosystem may affect other organisms and the entire ecosystem.	phosphate, sulfur cycle through ecosystems?	