

**Environmental Science**  
**Pacing Guide**  
**1<sup>st</sup> Nine Weeks Fall Semester**

I. Science Process Skills, Chapters 1-2, 1-3

Resources: Holt, Environmental Science

Activities:

1. Discuss techniques using the scientific method involving observation, classification, metric measurement, prediction and conclusion and communication.
2. Discuss taxonomy – its need and history.
3. Laboratory exercise: Metric Measurement and Scientific Classification.
4. Discuss the importance of laboratory tools and safety during the lab.

Evaluation:

1. Daily quiz on lab tools, safety and lab procedure
2. Lab grades
3. Test over scientific method, laboratory safety and the scientific method.

Time Line: 10 days

QCC Objectives: ES 1 Uses skills in laboratory or field investigations including observations, classifications, communication, metric measurement, prediction, inference, collecting and analyzing data.  
S2 Uses traditional reference materials to explore background information regarding a scientific topic  
ES 3 Learns and uses on a regular basis standard safety practices for field investigations

II. Chemistry Review

Resources: Holt, Environmental Science; Globe, Physical science; Library Video “The Periodic Table”

Activities:

1. Discussion of atoms, molecules, elements, compounds.
2. Lab: Construct models of compounds (H<sub>2</sub>O, NaOH, HCl)
3. Study Guide: Lessons 12/5-12/7, Physical Science.
4. Group work on the organization of the Periodic Table.
5. Library video #560, “The Periodic Table.”
6. Study Guide: Lessons 14/1-14/6, Physical Science.
7. Lab: Construct models of atoms, electron configurations.
8. Lecture: Bonding and Compounds/Ionic and Covalent Bonds.
9. Study Guide: Lessons 15/1-15/6, Physical Science.
10. Discussion of Acids, Bases, and pH.