

**ES202 Stratigraphy and Geologic Time Class**  
**Assignment Due Friday Feb. 9, 2018 (at class time)**

Your task is to complete portions of Lab 8 in your lab manual (**AGI 10<sup>th</sup> Ed.**).

Part1. Short Answer. Read the lab materials on **p. 209-214** and define the following terms and concepts / answer the questions.

1. Discuss the difference between relative age dating and absolute age dating, as pertaining to the geologic rock record.
2. Law of Original Horizontality –
3. Law of Lateral Continuity
4. Law of Superposition –
5. Law of inclusions-
6. Law of Cross-Cutting Relations
7. Unconformity
8. Angular Unconformity
9. Disconformity
10. Nonconformity
11. Isotope
12. Parent vs. Daughter
13. Half-Life
14. What is the daughter product and half life of Carbon 14?
15. What is the daughter product and half life of Uranium 235?
16. Can C-14 be used to numerically date materials that are 10 m.y. old? Why or why not?

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**Part 2. Lab Activities. Complete the following lab questions / activities.**

**Activity 8.1 p. 208** Basics of Relative Age Dating

**Activity 8.2 p. 208** Geologic Cross-Sections and Relative Age Dating

**Activity 8.4 p. 222** Absolute Age Dating