

Tentative Test Date: _____

👉 IMPORTANT NOTE 👉

Study guides are not graded and we do not review them in class.
Study guides are not meant to completely prepare you for the test.
Study guides will *guide* you in the right direction to *begin* preparing for the test.
To completely prepare for the test you should review your notes, homework,
notes review sheets, warm-ups, activities, labs, and any readings.

Student Objectives

Your test is to see how well you meet the objectives. There will be questions for each objective on the test. How you respond to these questions will determine your grade. Below are all the objectives for this unit.

As a result of this student, the student will be able to:

- List and define types of fossils
- Classify fossil specimens
- Describe the formation of the different fossil types
- Explain how fossils and natural evidence explain earth's past
- Explain how the law of superposition and the principles of inclusion and cross-cutting relationships indicate relative age.
- Describe the importance of index fossils to aging rocks
- Order rock layers and their characteristics from oldest to youngest
- Describe the process of radioactive decay
- Explain how the absolute age of a rock can be determined using radioactive dating

If you can successfully demonstrate you can meet these objectives, you will be ready for the test!

Resources

The following resources will be very helpful in beginning to prepare for the test. You should also review your labs, homework assignments, activities, and review sheets.

Notes:

- 5.1: Fossils
- 5.2: Relative Age
- 5.3: Absolute Age

Reading:

- Chapter 4, Section 1
- Chapter 4, Section 2
- Chapter 4, Section 3

Sample Questions

Listed below are several sample questions. If you have trouble answering these, you should review the content it is from. **Remember:** Just because you can answer these questions does **not** mean you are ready for the test. Answer these questions on a separate sheet.

1. What is a fossil?
2. What are the five types of fossils?
3. Provide an example of each type of fossil.
4. Explain how each type of fossil forms.
5. What is the difference between premineralization and petrification?
6. What can we learn from fossils?
7. What can we learn from trace fossils?
8. What is natural evidence (think: what can we use to figure out earth's past that is not a fossil)?
9. What can we learn from tree rings? Ice cores?
10. What is relative age?
11. What is the law of superposition?
12. What is a syncline and anticline? How do you identify each?
13. Where are the oldest/youngest layers found in a syncline? In an anticline?
14. What is an inclusion?
15. What is the principle of inclusion?
16. What is the principle of cross cutting relationships?
17. What could "cross cut" rock layers?
18. How does the movement of earth's plates disturb rock layers? Formation of igneous rock? Faults and unconformities?
19. What is an index fossil?
20. How are index fossils used to find the relative ages of rock layers?
21. What is absolute age?
22. What is a half life?
23. What is radioactive decay?
24. Briefly explain how scientists determine the age of a rock using absolute age.