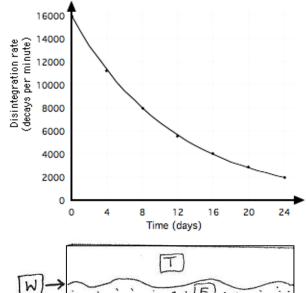
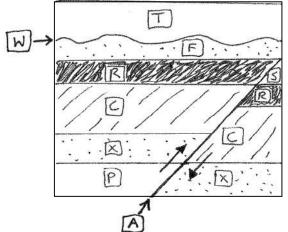
Review for Strata & Fossil	Quiz	Name:	Quiz Date:
Your quiz will have some mult	iple-choice question	s, matching, fill-in-the-blank qu	estions, and short answer. To review,
study DQs, notes from class, la	bs, video notes, activ	vities, and strata problems. Here	are the learning targets:
I can interpret rock stra	nta diagrams to deter	mine the relative ages of rock la	yers and fossils and explain how this
evidence helps organiz	e Earth's history.		
• I can describe how abs	olute dating works a	nd interpret half-life data.	
• I can describe how diff	erent fossils form, h	ow they provide clues about the	past, and describe their
similarities/differences	with modern organi	sms.	
1. Fossilized tree sap is better	known as:		
A. a mold fossil	C. petrification		
B. a cast fossil	D. amber		
2. Indirect evidence of past life	such as fossilized fo	potprints or burrows are called:	
A. body fossils	C. index fossils		
B. trace fossils	D. frozen fossils		
3. Determining the age of a san	nple based on the rat	io of radioactive (parent) materi	al to the non-radioactive (daughter)
material is known as:			
A. relative dating	C. stratification		
B. absolute dating	D. geologic colum	n	
4. The most advanced organism	ns in the fossil record	d are typically found in the	of the Geologic Column.
A. bottom	C. top		
B. middle	D. none of the abo	ve, there is no pattern	
5. The Principle of Superposition	on states that the you	inger layers of rock lie	the older layers of rock.
A. above	C. beside		
B. below	D. inside		
6. If a radioactive material has (undecayed)? Show your work		years, how old is a fossil if only	1/16 th of it is still radioactive

- 7. Using the graph shown on the right, answer the following:
- a. What is the half-life of this radioactive substance? How do you know this (define half-life)? Explain.
- b. After 16 days, about how many decays per minute would you expect to detect?
- 8. Use the diagram on the right to answer the following questions: a. What is the name of the feature represented by W? How could
- this have occurred?
- b. What is the name of the feature labeled by A? _____
- c. List all the layers and features in the diagram from youngest to oldest. **Youngest:**





Oldest:

9. Using the pictures below, answer the following:

х	Oregon
Т	
В	
G	A

F	Utah	
M		
С		
P		

a. Based on the evidence, which would make a better
ndex fossil, the Black Circle or the Black Triangle?
Explain your answer.

b. Which is older, A or B? Why?

c. If all Black Triangle fossils are 45 myo, Layer G is 85 myo, and Rock A is 65 myo, then about how old are the

following:

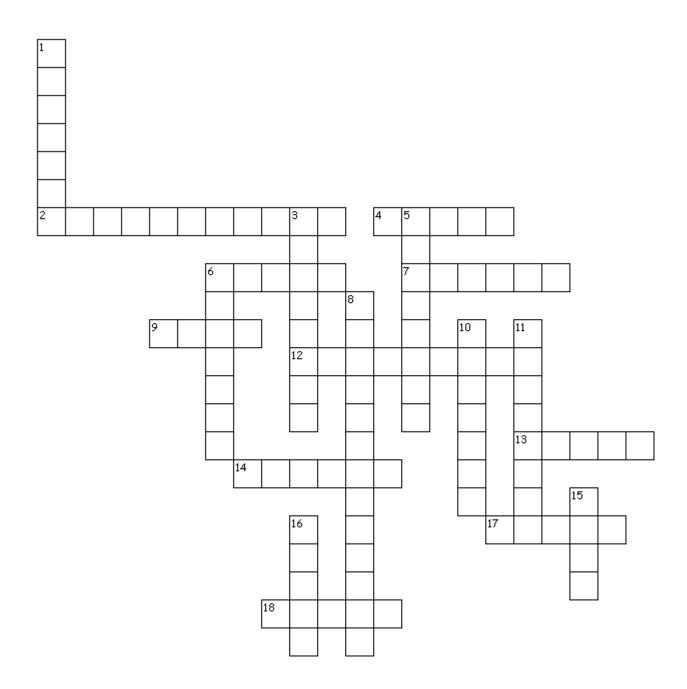
 Layer F:______
 Layer X: _______
 Layer B: _______

 Layer M: _______
 Layer T: _______
 Black Circle Fossils: _______

- d. What is A called?
- e. What are the layers of sedimentary rock called?

10. Scientists estimate that the Earth is about	years old based	on radioactive dating of	
11. Any disturbance to a rock layer is always	than the rock layer it disturbs.		
12. Earth has experienced several major mass ex	tinctions. What are the theories about the	ne causes of these events?	
13. You find these two fossil skulls from the same time period. a. What key differences are there in the skulls?	A SPORTING STATES OF THE PARTY	B	
b. What might this mean about each organism's	role in the ecosystem?		
c. What similarities are there in each skull compa	ared to modern organisms?		
14. Compare and contrast each of the following:			
Body and Trace Fossil:	Fault and Intru	asion:	

Mold and Cast:	Tilting and Folding:
Absolute and Relative Dating:	Strata and Sediment:



Across

- 2. type of rock that fossils are usually found in
- 4. hot liquid rock inside the Earth
- 6. a break in the Earth's crust where rock layers slide past each other
- 7. layers of sedimentary rock
- 9. the half-life is the amount of time it takes _ ____ a radioactive sample to become stable
- 12. igneous rock that melts into existing strata
- 13. fossilized tree sap
- 14. any naturally preserved evidence of past life
- 17. when radioactive elements $_$ they turn into stable elements and release radiation
- 18. older rocks are found _____ younger rocks

Down

- 1. type of rock that is more likely to be radioactively dated
- 3. type of dating that approximates ages of rock layers and fossils based on their position
- 5. type of dating that uses radioactive elements to pinpoint a rock/fossil's age
- 6. when strata bend and buckle due to pressure
- 8. wood is turned to stone in this fossilization process
- 10. when strata become slanted at an angle due to internal pressure
- 11. radioactive elements have _____ nuclei
 15. a 3D fossil that forms when a mold is filled with sediment that hardens
- 16. category of fossil that is useful in relative dating of a rock layer