

AIM: How can we tell if rocks came from the same time period?

Unit 5: Geologic History

Do Now:

- 1) Next to each example, write whether it is an example of absolute age (A) or relative age (R)
 - a. I am 47 years old _____
 - b. This rock was formed 10,000 years ago _____
 - c. This layer of rock is younger than the layer below it _____
 - d. I baked this cake 4 days ago _____
 - e. The last thing I did was lock the door _____

2) What does the principle of original horizontality say?

3) What does it mean when geologists say “the present is the key to the past?”

	<ul style="list-style-type: none">1) Correlation is when _____ _____2) We can show correlation in 4 ways:<ul style="list-style-type: none">a. By looking at outcrops: _____ _____ b. By looking for similarities in rocks in the local area: _____ _____c. By looking for index fossils:<ul style="list-style-type: none">i. Fossils are: _____ _____ii. Index fossils: _____ _____ _____ _____d. By looking for volcanic ash and meteorite deposits: _____ _____ _____
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Summary and reflection:

Homework: Complete Block Diagram Practice Questions

Pre-lab:

- 1) What is a fossil?

- 2) Sometimes certain fossils are useful for correlation (being able to tell if rocks from different areas come from the same time period).
What are 2 characteristics that index fossils should have?

Purpose: During this lab, you will examine different examples of fossils and record what they look like and when they formed.

Procedures: Use the General Fossil Kit. Fill in the table below.

Fossil #	Sketch	What do you think this is a fossil of?	Actual description	Period it came from	How many million years ago would a rock with this fossil have formed (range): ESRT pgs. 8-9
1					
2					
3					
4					
5					
6					
7					

Fossil #	Sketch	What do you think this is a fossil of?	Actual description	Period it came from	How many million years ago would a rock with this fossil have formed (range)
8					
9					
10					
11					
12					
13					
14					
15					

Lab questions:

- 1) If a rock layer contained Fossil #8, how old could this rock be? _____
- 2) If a rock layer contained Fossil #13, how old could this rock be? _____
- 3) If these layers were deposited on top of each other, which layer would be on top? Explain with clarity using the principle of superposition _____

- 4) Turn to pages 8-9 of your ESRT, Sketch and label 3 index fossils below.