

PART 2 NOTES

RELATIVE DATING

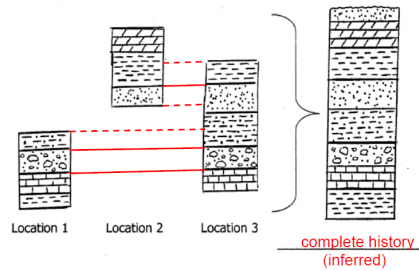
May 6-7:56 AM

II. Relative Dating

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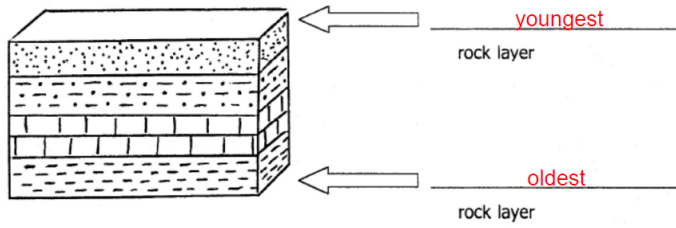
A. Relative Age - the age of something compared to something else

B. The Geologic Column - an ideal sequence of rock layers created by combining data from all known rock sequences at various locations.



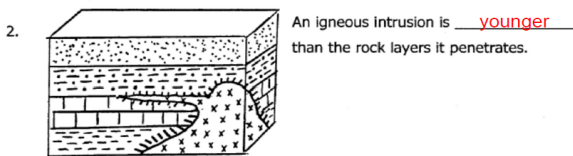
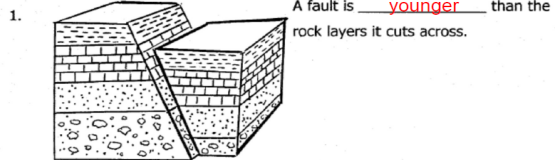
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C. Principle of Superposition - In undisturbed sedimentary rock layers (strata), the oldest rock is at the bottom



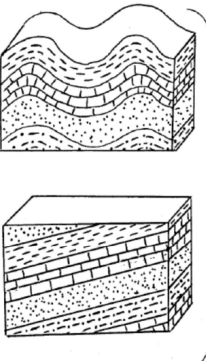
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D. Disturbed Rock Layers and Relative Dating



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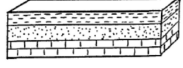
3.

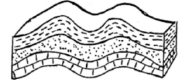


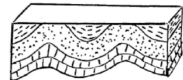
The folding and tilting of rock layers are events that are younger than the rock layers they effect.

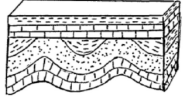
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Formation of an Unconformity: Page 10

- 

deposition – formation of horizontal rock layers
- 

uplifting / folding
- 

erosion
- 

unconformity
subsidence – deposition –
formation of horizontal rock layers

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Formation of an Unconformity: Page 10

- 1.
- 2.
- 3.
- 4.

Unconformity – a surface of erosion between rock layers that represents a missing gap in Earth's history.

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F. Index fossils – a fossil that is used to date the rock layers in which it is found. Page 10, 11

1. An organism that lived during a relatively short time span
2. An organism that has a wide distribution geographically (found everywhere)

Which of these is an index fossil?

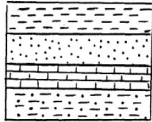
Outcrop 1	Outcrop 2	Outcrop 3	Outcrop 4

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G. Determining Relative Age:

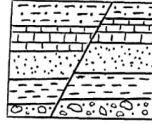
Identify both the oldest rock or event and the youngest rock or event:

1.



oldest siltstone
youngest shale

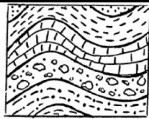
2.



oldest conglomerate
youngest fault

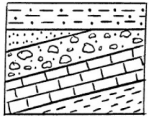
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3.



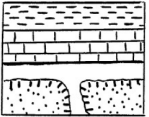
oldest shale
youngest folding

4.



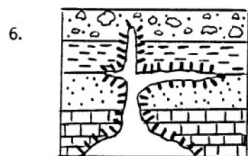
oldest shale
youngest siltstone

5.

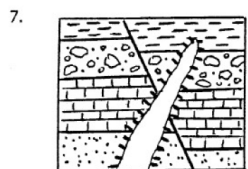


oldest sandstone
youngest shale

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oldest limestone
youngest igneous intrusion



oldest sandstone
youngest igneous intrusion

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