

Target	1	2 (all of 1 plus)	3 (all of 2 plus)	4 (all of 3 plus)
<b>LE 5.7 Preparedness</b>	Does not complete formative or summative in an effortful and timely manner, is not engaged, does not arrive on time with class materials ready to learn, does not communicate when issues arise	Completes formative or summative in an effortful or timely manner, is sometimes engaged, sometimes arrives on time with class materials ready to learn, sometimes communicates when issues arise	Completes formative or summative in an effortful and timely manner, remains engaged, arrives on time with materials ready to learn, communicates when issues arise	Completes formative or summative in an effortful and timely manner, remains engaged, arrives on time with materials ready to learn, communicates when issues arise, and is reflective on strengths and challenges within your preparedness skill
<b>LE 5.6 Precision</b>	Recognizes the importance of products that are planned, edited, and completed with care	Attempts products that are planned, edited, and completed with care	Creates products that are planned, edited, and completed with minimal errors	Creates products that are planned, edited, and completed free from errors or need for revision
<b>Geo 4</b>	I can define the processes which create, alter and/or destroy the rock record	I can identify within a diagram the processes which create, alter and/or destroy the rock record	I can interpret a diagram to determine the sequence of events (relative age) in Earth's history as it relates to past and current movements of continental and oceanic crust	I can interpret a diagram to determine the relative sequence of events in Earth's history as it relates to past and current movements of continental and oceanic crust internally (cross section) and externally (land features)
<b>MP1 Geosphere</b>	I can define the processes that create, alter and/or destroy rock formations	(all of 1 plus) I can explain the processes that create, alter and/or destroy rock formations	(all of 2 plus) I can interpret evidence of the past and current movement of crust to explain ages and structures of rock formations	(all of 3 plus) nailed it!

1. Match the principle on the left (column A) with the (partial) definition on the right (column B).

**Column A**

The principle of Original Horizontality

The principle of Uniformitarianism

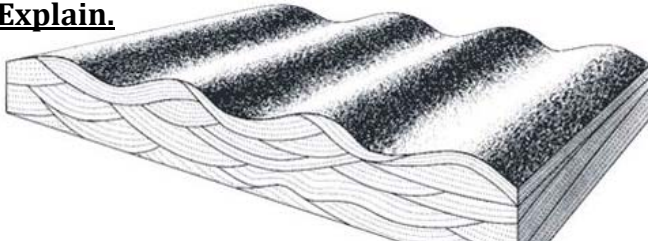
The principle of Faunal Succession

The principle of Superposition

**Column B**

- In an undisturbed cross section of earth. The younger rocks are on top of older rocks
- Species that go extinct in the rock record cannot reappear in newer rocks.
- Sediments are deposited parallel to the surface of the earth
- Geologic processes happening today happened in the past in much the same way.

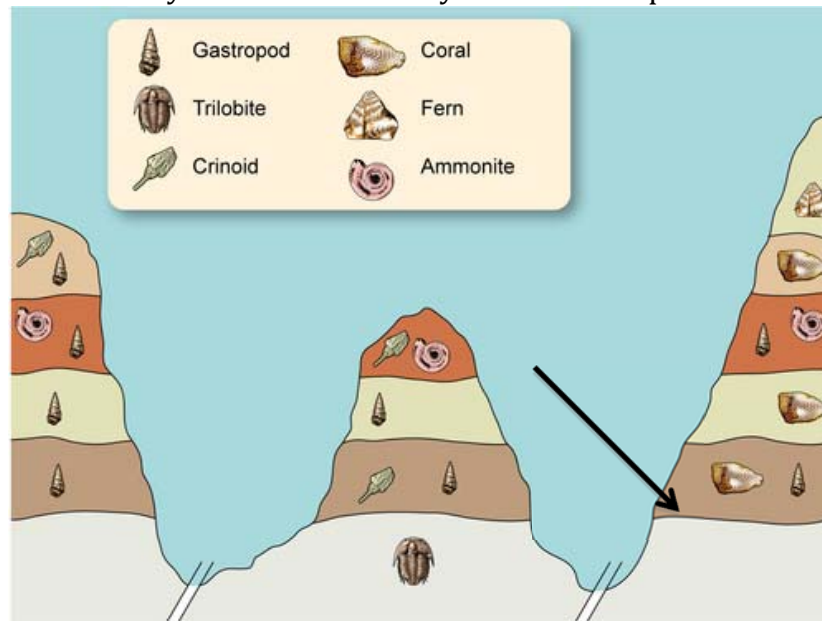
2. The image represents a rock of a fossilized sand dune. It is a good example of which principle? **Explain.**



3. Were the sediments that formed the rock wall in the image to the right **originally** deposited how they are seen? \_\_\_\_\_  
Which principle supports your answer? **Explain.**



4. On the diagram below place a 1 (one) next to the layer that was deposited first, a 2 (two) to the next level that was deposited...until you reach the last layer that was deposited.



5. Is the layer on the far right in the diagram that contains the Ammonite the same layer that contains the Ammonite on the left of the diagram? If no, **explain** why not. If yes, **explain** the principle that allows us to make this conclusion.
6. The arrow points to a layer within this cross section. Based on the evidence provided, at this point in time...
- which specie(s) has(have) gone extinct ?
  - which specie(s) has(have) yet to exist ?
7. The diagram above shows two rivers (*the lines at the bottom of the valleys*) flowing through canyons. Based on your number sequence, when did the original river start to erode the canyon walls? (*Example: Before layer...OR after layer...OR during layer...*) **Explain.**
8. Ancient rock history...
- The original rock on Earth formed about \_\_\_\_\_ years ago, as a consequence of \_\_\_\_\_.
  - This rock must have been (what type) \_\_\_\_\_.
  - Once the original rock formed, it could undergo the processes of the Rock Cycle... AND the processes that lead to rock layers as represented in the diagram above. Describe the geological history that would have led to the layering represented in the image.