

Chapter 5: The Changing Earth

Section 5A Observing the Evidence

1. How can two people look at the same evidence and present two very different stories of Earth's history of change?

- They begin with _____ (which shape how they _____ the _____).

2. How can we tell that the rocks on Earth's surface have changed during its history?

- The presence of _____ and the _____ shows us that Earth's rocky material has _____ over time.

3. What evidence suggests that the continents weren't always in the same places as they are now?

- Patterns in the _____ of rocks.

- Discovery of _____ and _____ across continents.

- Matching _____ of _____.

- _____ measurements of _____ motion.

4. What are two ways that geologists can date rock stratum?

Geologists use:

- _____ (_____) _____, which measures _____.

- _____, which relies on the _____ of _____ and the use of _____.

5. What do geologists believe is the driving force for seafloor spreading?

- Rising plumes of hot _____ strike the underside of the _____ and then _____, dragging sections of the crust with them.

Section 5B: The Old Earth Theory

6. How do secular scientists think the Earth's oceans formed?

- _____ and _____ of icy _____.
- _____ released from _____ trapped inside the _____.

7. How many major ice ages have occurred in Earth's past according to secular geologists? How severe do they believe they were?

- At least _____ major _____, some of which were so _____ that they caused _____ to reach the _____.

8. Why is the presence of fossils and rocks all over the world a problem for the Old Earth Theory?

- _____ form only when _____ are _____ in _____ that then quickly hardens into _____.
- This suggests _____, not slow, gradual processes.

9. Why do people cling to their beliefs about Earth's history even when faced with contradicting evidence?

- Because changing their _____ of Earth's history would require them to change their _____—including their _____ about life, _____, and _____.

Section 5C: The Young Earth Story

10. State three ways in which the biblical Flood affected the world and people.

- It completely _____ the _____
_____.
- It marks the dividing line between the _____
_____ world and the _____ world.
- Human _____ was significantly
_____ after the _____.

11. How does the presence of fossils and rocks all over the Earth fit with the Bible story?

- The Flood buried _____
_____ under layers of _____, creating
_____ all over the Earth in a _____ amount of
time.

12. Identify the four main periods of Earth's history represented in the geologic column according to the Bible story.

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13. What two factors associated with the Flood may have contributed to a single ice age following the Flood?

- Warm _____ from cooling _____.
- Atmospheric _____ from _____
_____ and _____
forming thick clouds.

14. How could a young Earth creationist explain evidence in the solar system, like tilted planets and unusual magnetic fields?

- These features are ultimately the result of _____

_____.

- Relying on _____ as a source of _____ is not

_____.