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| --- | --- | --- |
| Name: | Class: | Date: |

16.2 History in Stone

Fossils can give us a glimpse of the past by uncovering organisms that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; meaning that these organisms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ these organisms lived, can be determined by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ they occur in the layers of rock.

Fossils are generally found in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which is formed by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ building up and hardening from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the weight above.

Fossils found in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layers are much older than newer layers that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Scientists have found that newer fossils \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to some organisms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Measuring Geological Time:

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ covers the millions of years of Earth’s existence.

Earth’s history is divided into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ large units called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that do no cover the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ length of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

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| --- | --- | --- |
| Era | Millions of years ago | Fossil record of a major change of life on Earth |
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Activity 16C: A Model of Geological Time

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| --- | --- |
| Event | Distance along 5m strip |
| 1. Great pyramids of Egypt built |  |
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Where 1 metre = 1 billion years so 3.8 million years = 3.8 m or \_\_\_\_\_\_\_\_\_\_\_ cm

Discussion:

1. Compare the length of time of human history with:
2. The length of time that dinosaurs lived on Earth
3. The age of the Earth
4. What do you think is important about the comparisons in question 1?
5. When did the first land plants appear on Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. When did the first land animals appear? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Do you think the events in question 3 could have happened in the reverse order? Explain your answer.