Revealing Earth's History

The Geologic Time Scale

1. **What forces have helped shaped the recent landscape of the Grand Canyon?**

A. Volcanic activity
B. Earthquakes from a fault line
C. Erosion from the Colorado River
D. Glaciation carving the landscape

2. **What forces have helped shaped the recent landscape of Ontario?**

A. Volcanic activity
B. Earthquakes from a fault line
C. Erosion from the Colorado River
D. Glaciation carving the landscape



3. **What is the function of an index fossil?**
   - **A. To pinpoint a specific time when the fossil was represented.**
   - **B. To indicate a specific location where the fossil was found.**
   - **C. To define a particular time interval in the geologic time scale.**
   - **D. To differentiate between marine and land organisms.**

4. **An extensive calendar timeline of events and chages that have occurred throughout Earth's History.**
   - **A. Fossil records**
   - **B. Geologic Time Scale**
   - **C. Theory of Evolution**
   - **D. Big Bang Theory**

5. **The following are included in the four major eons except**
   - **A. Phanerozoic**
   - **B. Cambrian**
   - **C. Ordovician**
   - **D. Hadean**

6. **Active volcanic events during the Pre-Cambrian created an oxygen-rich atmosphere that supported the early unicellular bacteria.**
   True
   False

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7. **The following are true about the Hadean except**
    A. **Dentrital zircon fossils revealed earthquake activities**
    B. **First signs of life appeared**
    C. **Rock fossils were found in among cooled down magma and with water interactions and impressions**
    D. **Crusts and oceans were formed.**



8. **One of the stable regions that formed via active tectonic plates during Proterozoic era is called**
    A. **Australia**
    B. **Eurasia**
    C. **Antarctic**
    D. **Gondwanaland**

9. **The Mesozoic, Cenozoic and Paleozoic belong to**
    A. **Pre-Cambrian**
    B. **Phanerozoic**
    C. **Cambrian**
    D. **Archaean**

10. **The oldest fossile ever recorded was**
    A. **Discovered to be approximately 3.7bya**
    B. Dickinsonia costata
    C. Discovered to be 4.6 bya
    D. A stromatolite fossile

11. Which of the following does not belong in this group
    A. Phanerozoic
    B. Hadean
    C. Archaean
    D. Proterozoic



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Arrange the following events during the Pre-Cambriam

1st	*a*	*First signs of life*
2nd	*b*	*Cambrian explosion*
3rd	*c*	*Formation of the Moon*
4th	*d*	*Coolin down of magmatic crust*
5th	*e*	*Oxygen-rich atmosphere*

Matching

12. Match the items in Column A to those in Column B

Period	**Phanerozoic**
Eon	Miocene
Supereon	Tertiary
Era	Mesozoic
Epoch	Pre-Cambrian



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13. For each geological classification, match the corresponding era or eon

Precambrain super eon	**Paleogene period, Neogene period, and Quaternary period:**
Phanerozoic eon	**Hadean, Archean, Proterozoic eons**
Cenozoic era	**Paleozoic era, Mesozoic era, Cenozoic era :**

14. For each geological event, choose the corresponding time

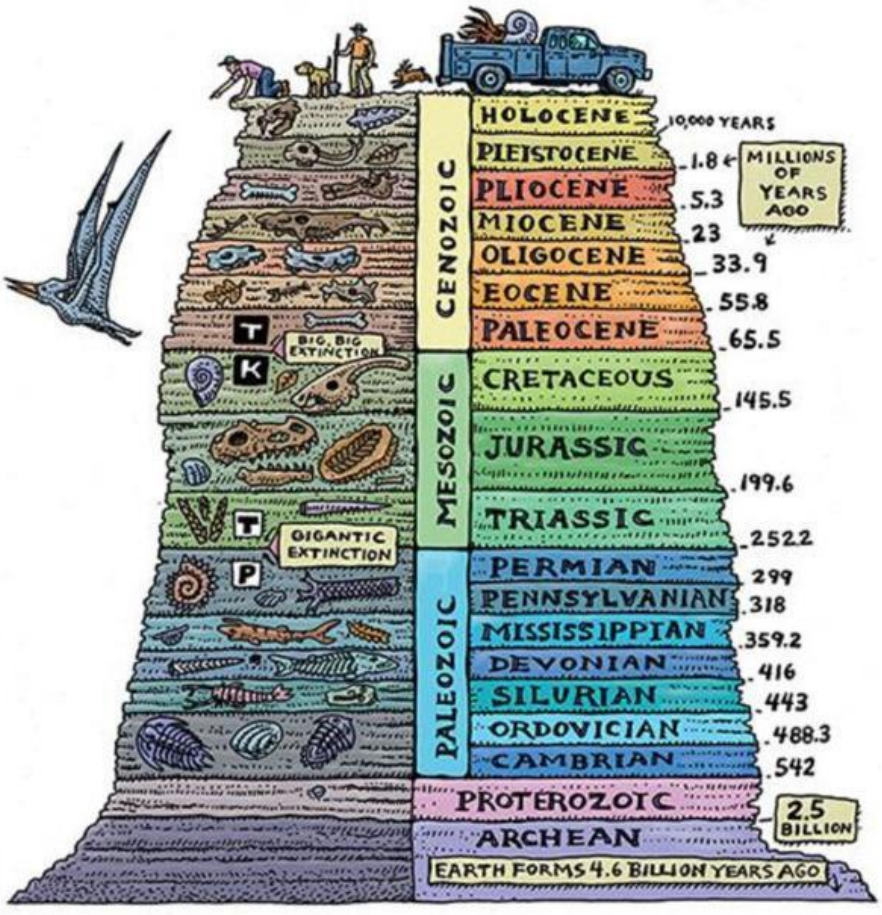
Homo sapiens evolve in Africa:	**10,000 years ago**
Earth forms as a planet:	**65 million years ago**
Shelled marine animals appear:	**520 million years ago**
Last ice sheets retreat:	**4.6 billion years ago**
Mass extinction of the dinosaurs:	**200,000 years ago**

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15. Indicate the approximate age of the features of the Grand Canyon listed in the table:

Feature	Age
Rocks in canyon walls	
Canyon formation	

16. List at least three valuable metals mined from the Canadian Shield.



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