

# Unit 3: Change the Environment



# Unit 3 Change the Environment

## Lesson 1: Fossils

Week 2: 8 - 12 January 2024

Day 1



Gr. 3



2



1



5



3



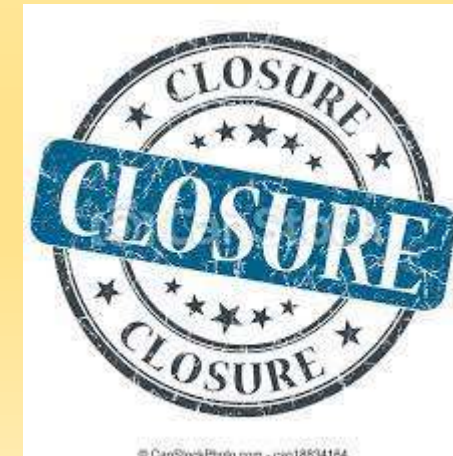
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6



7



Lesson Activities

# Grade 3 Science Classroom Rules



Keep your  
class clean.



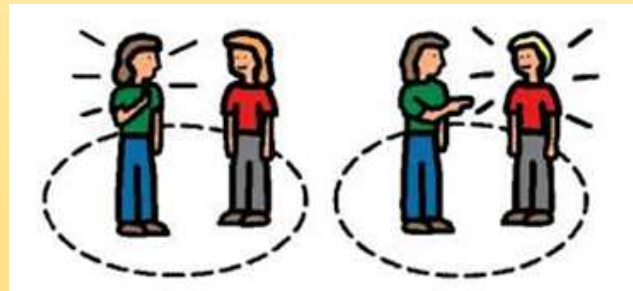
Stay in your seat.



Listen to your  
teacher.



Raise your hand  
to ask or share.



Don't talk when  
others are talking.



Bathroom  
between periods  
or during break.





environment



extinct



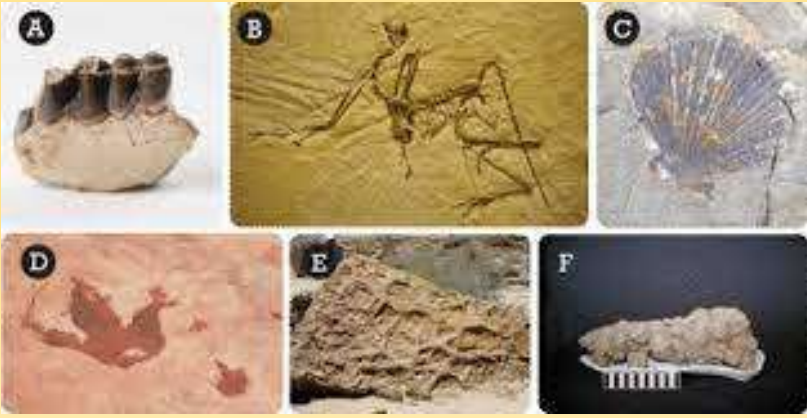
exist



preserve



remains



layers



# Writing

08-01-2024

## Vocabulary: Lesson 1, Fossils

1. Environment
2. Fossils
3. Exist
4. Extinct
5. Preserve
6. Remains
7. Layers



By the end of the lesson, I will know how fossils tell us about changes that happened over many years on Earth.

# Learning Question

How do we learn about Earth's History?

Explain  
and  
Describe











# Closure

## True or False

1. Earth is about 4.5 billion years old.
2. Camels are EXTINCT animals.
3. We know about animals that lived long ago because of fossil records.





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Day 2



Gr. 3



Lesson Activities



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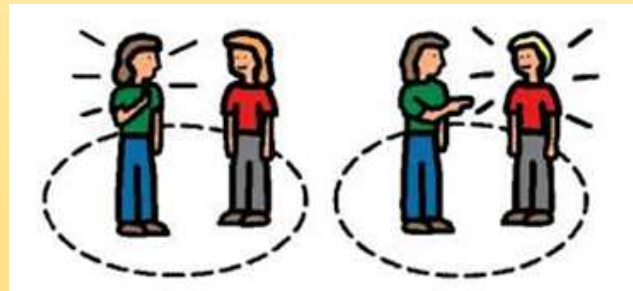
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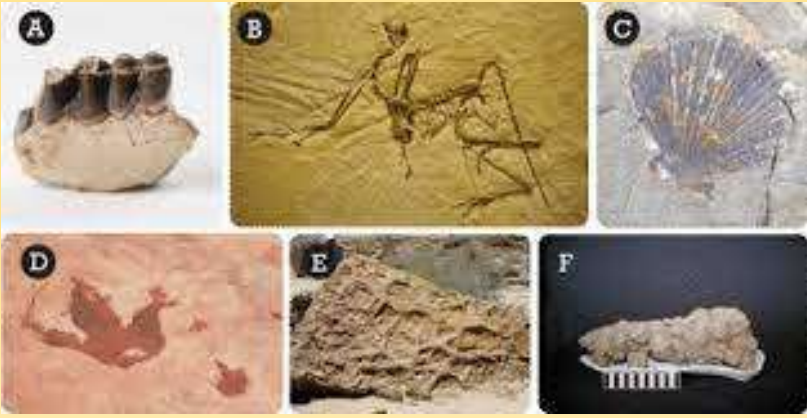
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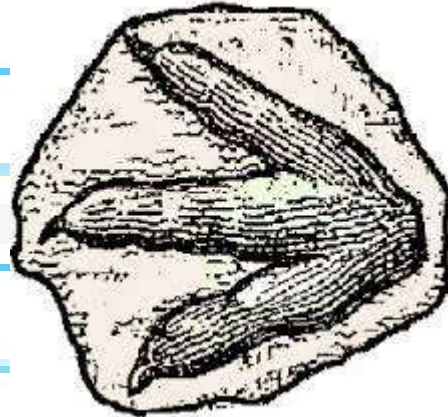
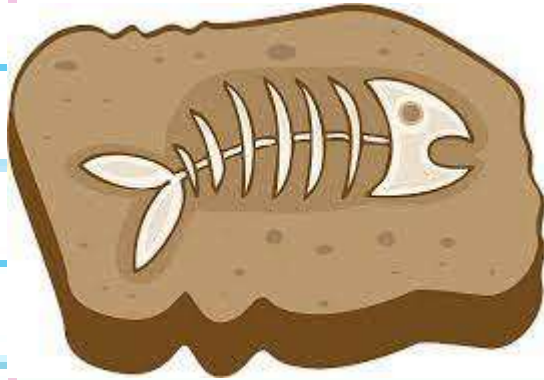
# Writing

9-01-2024

## Vocabulary: Lesson 1, Fossils

### Remains

Left over parts of an organism.





By the end of the lesson, I will understand that older fossils are found in deeper layers of the Earth.



# Learning Question

What information about an organism can you get from a fossil dig?



## Fossil Dig





# Closure

Choose the correct answer.

How do you know which fossils are older?

A. Older fossils are in the top layer of Earth.

B. Older fossils are in the deepest layer of Earth.



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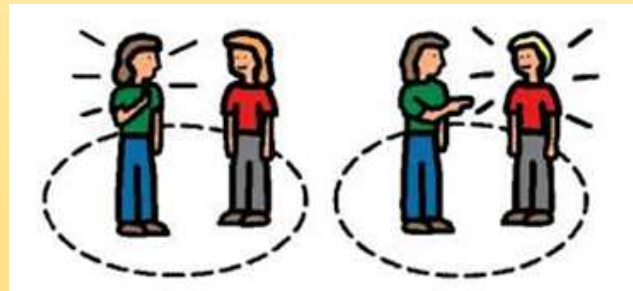
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environment



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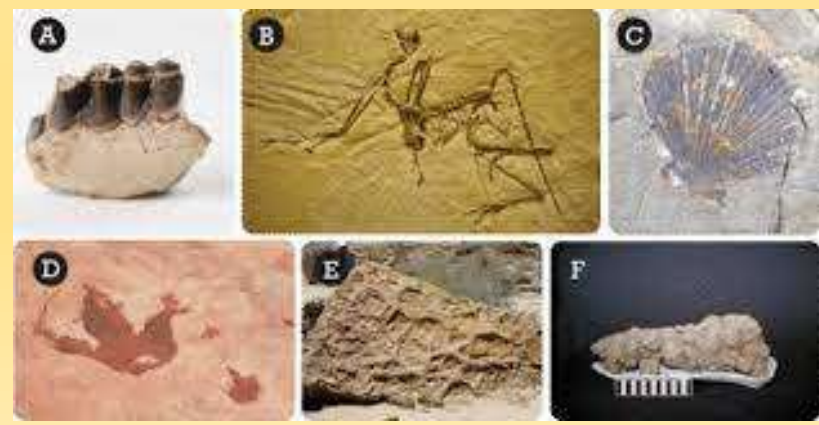
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preserve



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layers



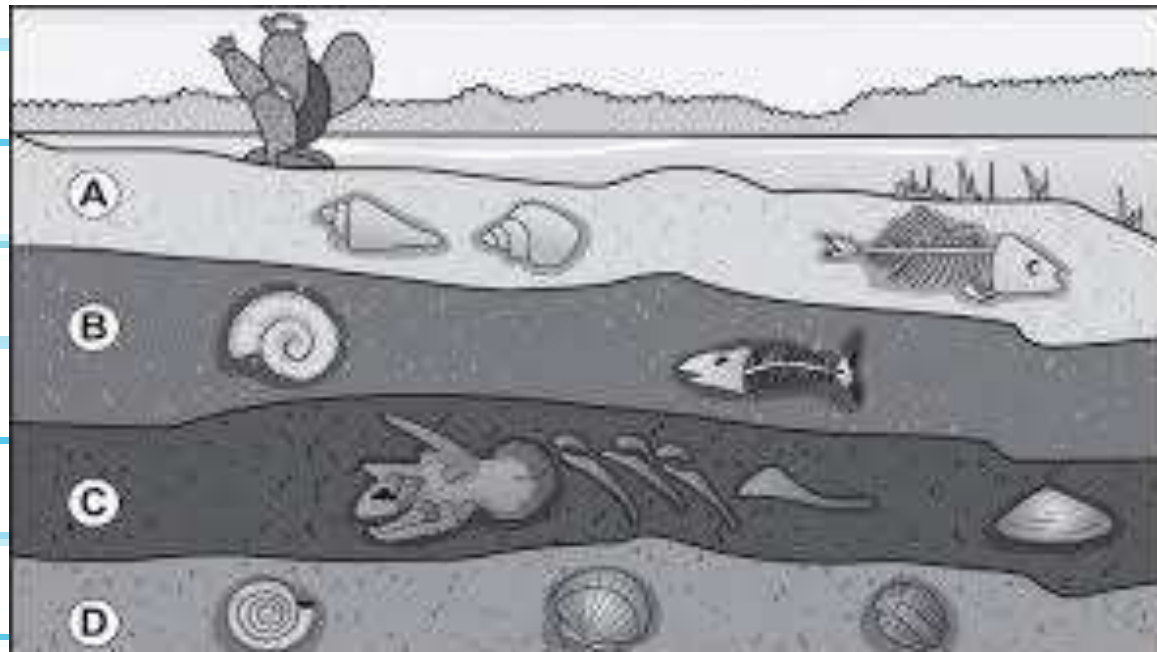
# Writing

10-01-2024

## Vocabulary: Lesson 1, Fossils

### Layers

Rock and soil that form on top of each other over a long time.





By the end of the lesson, I will understand that fossils can tell us about the history of Earth.



# Learning Question

## What do fossils tell us?

Record  
data

### What Fossils Tell Us

Earth is about 4.5 billion years old. People have lived on Earth only a small part of that time. Scientists learn about Earth's past by studying fossils.

We know about organisms that lived long ago because of the fossil record. Mammoths are examples of such animals. No one has ever seen a mammoth, but we know about them because people have studied their fossils.



This photo shows a fossil of a mammoth. From their fossils, scientists know they were large mammals.

### Changes in Living Things

The fossil record shows that the kinds of things on Earth have changed over time. Early in Earth's history, many fish swam in the oceans. There were few animals on land. Later, many species of fish became extinct. **Extinction** is when there is no more of an organism's kind left on Earth.

### Evidence of Earth's Changes

Looking at fossils also tells us about how Earth's environment has changed over time. Today, Antarctica is a cold place. It is covered in snow and ice. Scientists have found fossils of leaves and wood there. These fossils tell scientists that Antarctica was once a warm, wet area.

Scientists use details they find from fossils to piece together the story of Earth's past. From each new fossil found in Earth's surface, we learn a little more about our planet's history.



This coral once lived in a warm sea. Over millions of years, the area has changed to dry land in the center of the continent.

# What Can Fossils Tell Us?

- Fossils can show scientists 3 main things:
  - 1) The kind of organism that lived in the past
  - 2) How the environment has changed (ex: forest fossils found in Antarctica show the climate was much warmer in the past)
  - 3) How organisms have changed





# 1. The kind of organism

## Plants





# 1. The kind of organism

## Animals



Insects



Fish or other animals that lived in water.

How do we know they lived in water?

They have  
fins and gills



Birds

Which parts of the body tells us this fossil is a bird?



Animals that eat plants only.

What can we look at to see if the animal ate mostly plants or meat?

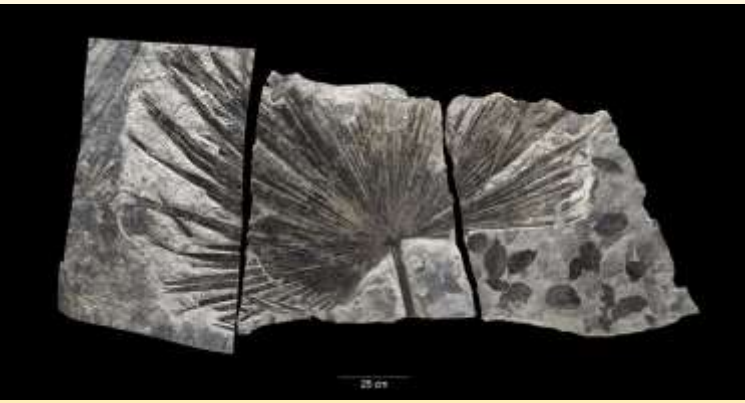


Animals that eat meat or other animals.





## 2. How the environment changed



Many types of warm-climate plants, including palms and ferns, grew in places too cold for them now.

Scientists found evidence of very old plant fossils that used to grow in places like Alaska and the Arctic.

These fossils tell them how the climate on Earth might have changed over millions of years.



Millions of years ago

Now





### 3. How organisms have changed.





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1



3



4



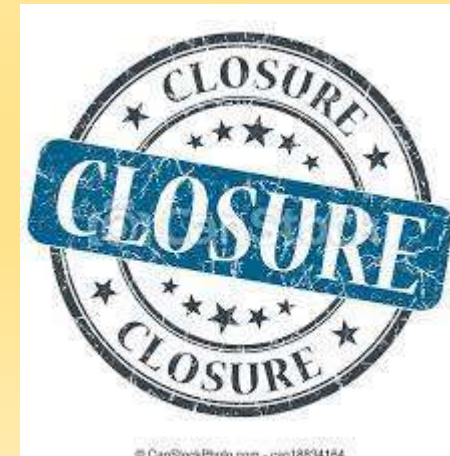
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Lesson Activities

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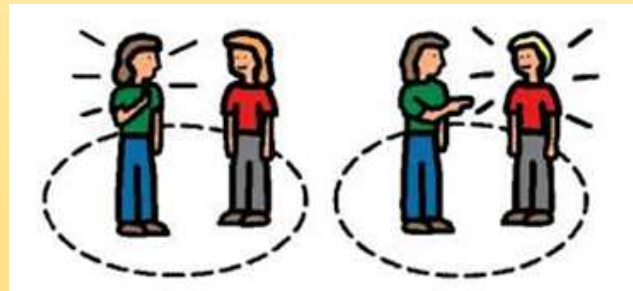
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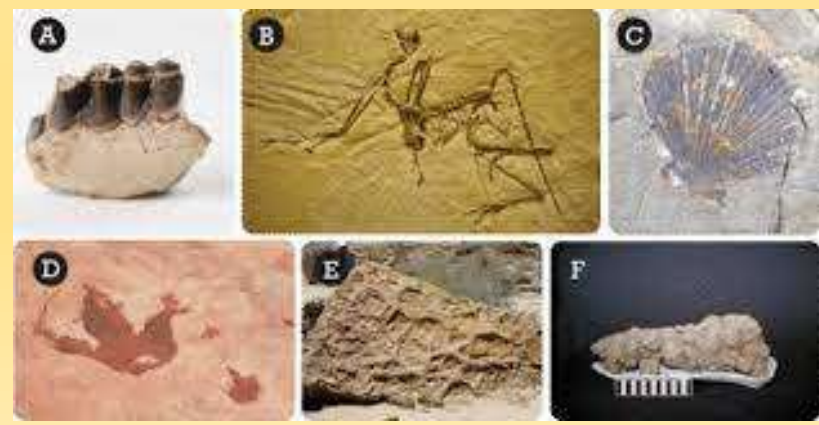
exist



preserve



remains



layers







By the end of the lesson, I will know how fossils are found, what they tell us about Earth and how organisms lived many years ago.

# Learning Questions

p. 66

## Review Lesson 1



LESSON 1

### Review

**EXPLAIN**  
THE PHENOMENON

Why don't mammoths exist anymore?

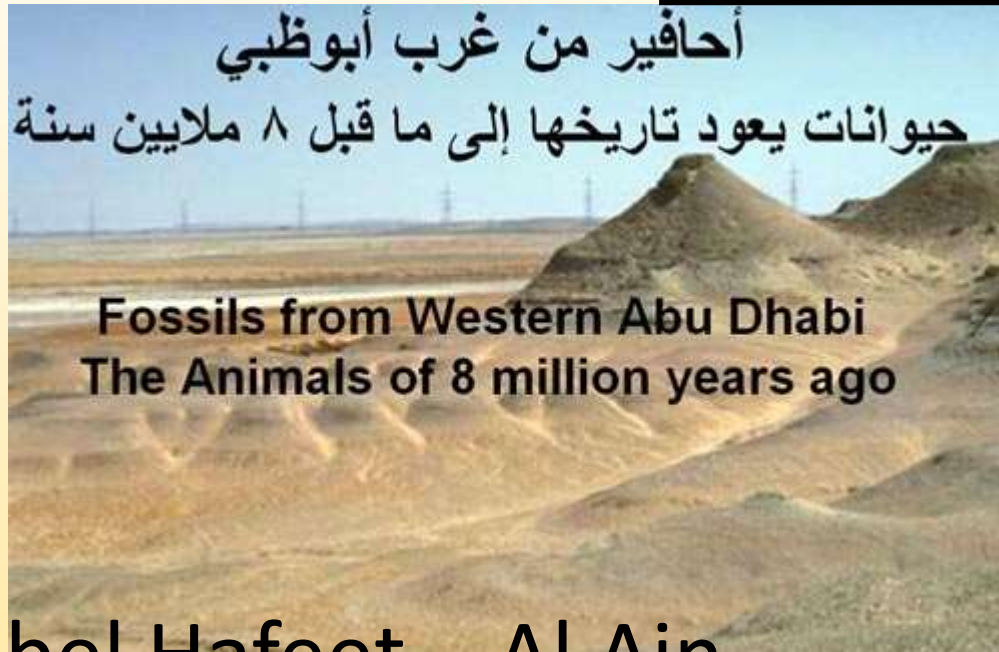
**Summarize It**

Explain what fossils tell us about the environment.

Fossils of mammoths tell us what they used to \_\_\_\_\_ and where they used to \_\_\_\_\_.



# Fossils in the UAE



**What does finding fossils of  
shells tell us about Jebel  
Hafeet, millions of years ago?**

Jebel Hafeet – Al Ain

Fossilized shells and imprints in rock of  
organisms that lived millions of years ago.





# Three-Dimensional Thinking


1. A type of organism that has no living population is said to be \_\_\_\_\_

- A. Fossil
- B. Remains
- C. An organism
- D. extinct





Use the table below to answer question 2.

Animal		Feature
	Saber-tooth cat	Long, sharp teeth
	Woolly mammoth	Flat teeth
	Pterodactyl	Long wingspan
	triceratops	Leathery skin



2. Which animal was most likely a meat-eater?
- A.Saber-toothed cat
  - B.Woolly mammoth
  - C.Pterodactyl
  - D.triceratops

3. The fossil of a fish was found at the top of a mountain.  
Which statement is MOST likely **true**?

- A. The mountain was once a hill.
- B. Fish used to live on the mountain.
- C. The mountain was once under water.
- D. Someone moved the fossil to the mountain.





Dear parents and students, this week we are learning about:

How do we learn about Earth's History?



What information about an organism can you get from a fossil dig?



Working on casts and molds to include in our class Dinosaur World display.

\*Lesson PPT's in LMS.

Week 2: 8 – 12 January 2024

## Unit 3: Change of Environments Lesson 1 Fossils

What do fossils tell us?

