

Lesson 1

Geologic History and the Evolution of Life

Scan Lesson 1. Then write three questions that you have about geologic history in your Science Journal. Try to answer your questions as you read.

Main Idea

Developing a Geologic Time Line

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Use pages # 601-630 to complete the packet. You have today & tomorrow in class. Due Friday! You may work in partners unless the sub tells you differently. Please be respectful!

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Details

Organize units of geologic time from longest to shortest.

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Longest \longrightarrow Shortest

Categorize units of time in the Phanerozoic eon.

	Eras	Periods
Phanerozoic		

Explain the relationship among fossils, rock layers, and the divisions of the geologic time scale.

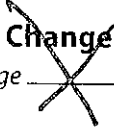
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MsParsons

Main Idea

Responses to Change

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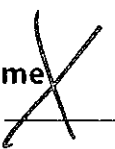


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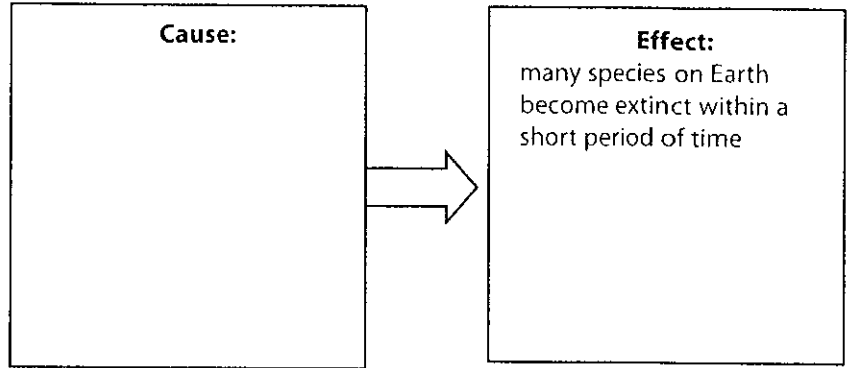
Precambrian Time


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Details

 **Identify** the cause of a mass extinction.



 **Cite** an example of a catastrophic event linked to a mass extinction.

 **Contrast** 2 ways that geography can affect evolution.

Land Bridge	Geographic Isolation

Identify the 3 eons of Precambrian time.

1.	2.	3.
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Main Idea

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Details

Identify Precambrian life-forms.

Analyze the effects of the Cambrian explosion on the fossil record.

There was a sudden appearance of _____

↓

First organisms to have _____

↓

These _____ were more easily _____

↓

These hard parts left more _____ in the _____

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Analyze It Explain three ways that geologic time units compare with the time units you use to organize events in your life.

Lesson 2 The Paleozoic Era

Predict three facts that will be discussed in Lesson 2 after reading the headings. Record your predictions in your Science Journal.

Main Idea

Early Paleozoic
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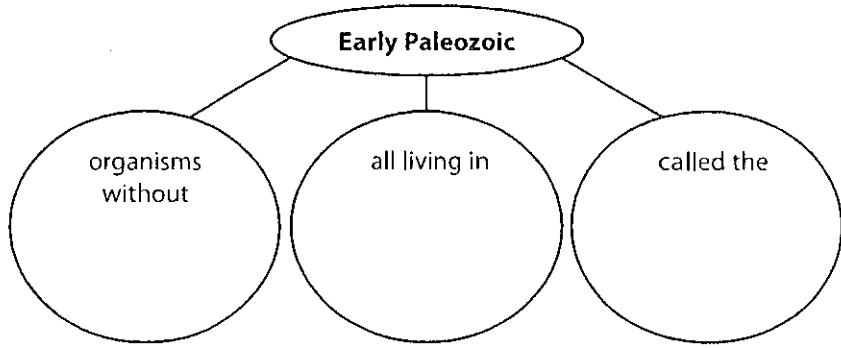
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Details

Summarize the extent of the Paleozoic era.
The Paleozoic era lasted for _____,
from _____ mya to _____ mya.

Characterize the Early Paleozoic era in the organizer below.



Contrast the Early Paleozoic era with the present.

	Then	Now
Life on land		
Amount of land mass		

Point out the differences between present-day North America and the same landmass during the Paleozoic era.

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Main Idea

Middle Paleozoic

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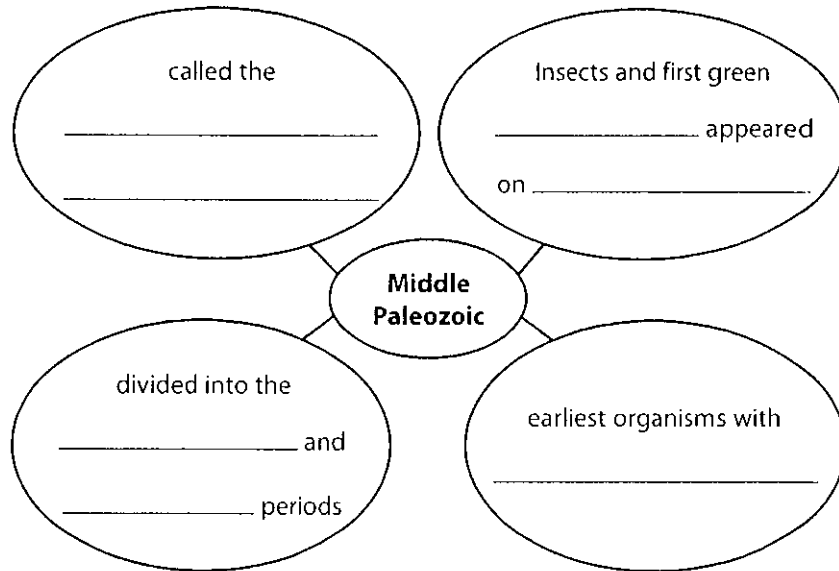
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Late Paleozoic

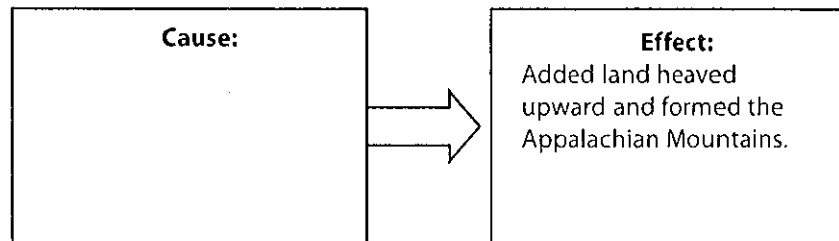
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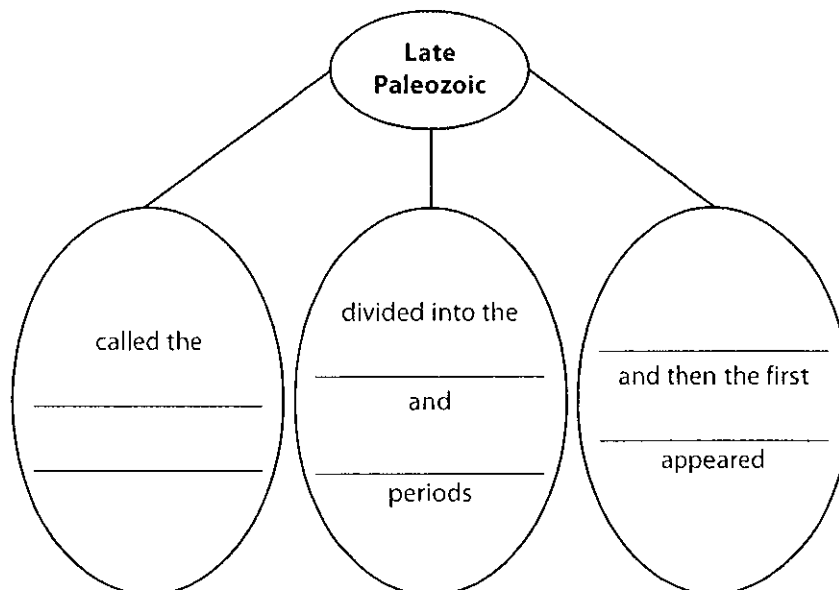
Characterize the Middle Paleozoic era in this organizer.



Identify the cause of the formation of the Appalachian Mountains.



Characterize the Late Paleozoic era.



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Main Idea

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Details


Sequence the development of coal in coal swamps.

1. _____ grew in swamps along _____


2. When _____ died, they _____ into _____

3. Plant matter changed into _____ over time.

 **Define** Pangaea, and explain its formation.

 **Summarize** possible causes of the Permian mass extinction.

Possible Cause	Related Effect
Formation of Pangaea	
Meteorite impact	
Volcanic eruption	

 **Connect It** Summarize the overall evolution of life forms during the Paleozoic era.

Lesson 3 The Mesozoic Era

Scan Lesson 3. Read the lesson titles and bold words. Look at the pictures. Identify three facts that you discovered about the Mesozoic era. Record your facts in your Science Journal.

Main Idea

Geology of the Mesozoic Era

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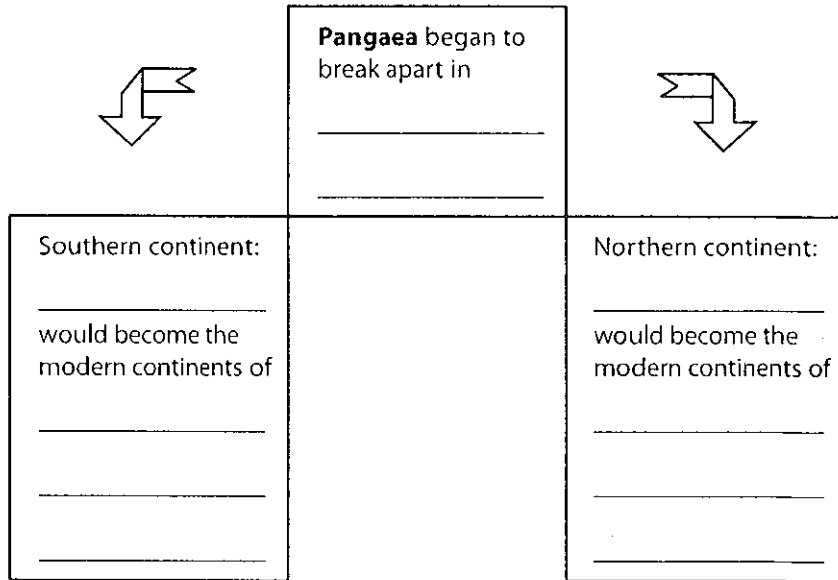
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Details

Arrange the periods of the Mesozoic era in the table below.

Periods of the Mesozoic Era		
_____	_____	_____
↑ from _____ mya		to _____ mya ↑

Organize information about the breakup of Pangaea.



Sequence the events that formed the Atlantic Ocean.

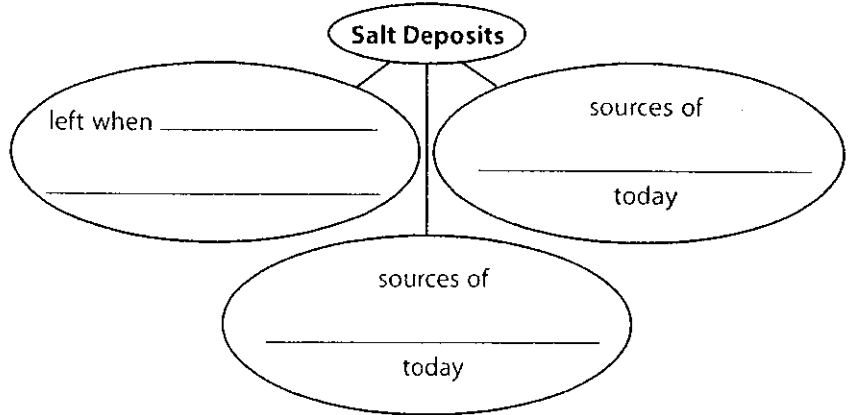
1. The climate was _____ during the Mesozoic.
2. _____ rose.
3. Pangaea began _____.
4. _____ flowed onto _____.
5. _____ formed.
6. As continents _____, the channels became _____.

Main Idea

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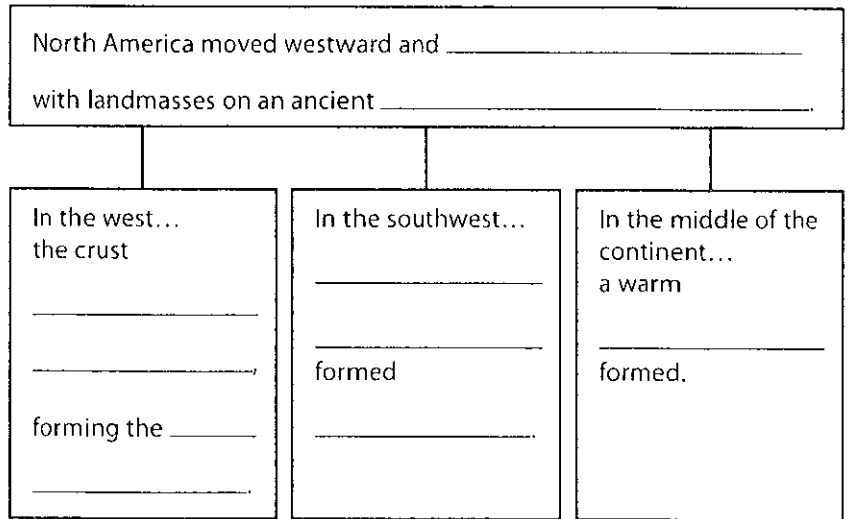
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Categorize salt deposits in North America.



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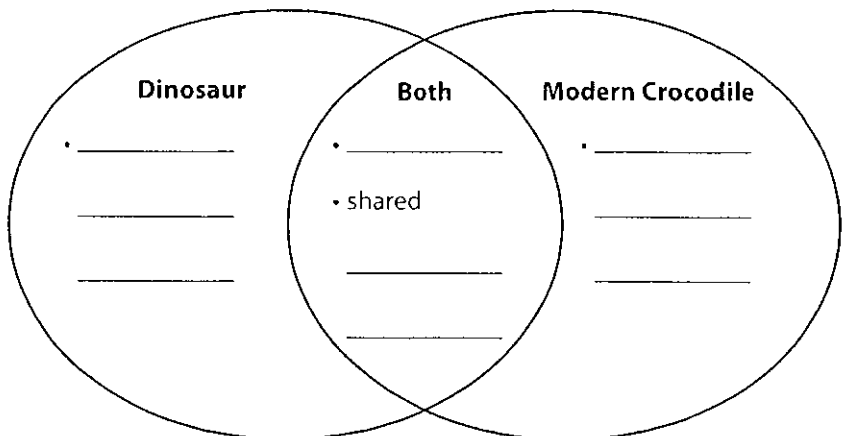
Explain the geologic changes in North America during the Mesozoic.



Mesozoic Life

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Compare and contrast dinosaurs with modern crocodiles.



Main Idea

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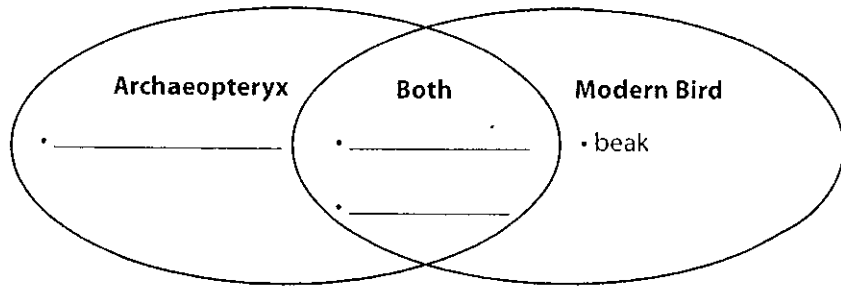
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Compare and contrast the archaeopteryx with present-day birds.

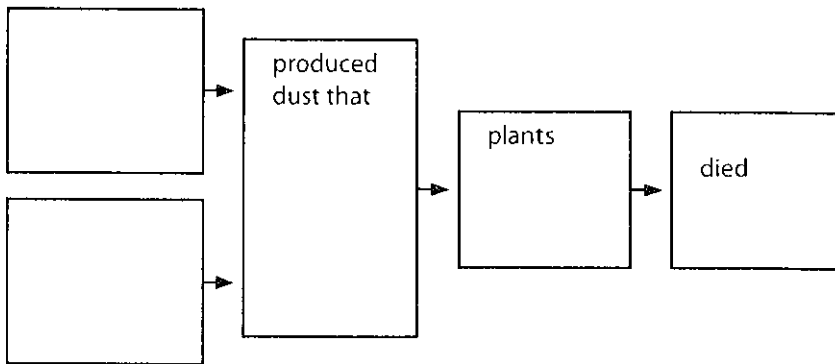


Identify 3 types of Mesozoic reptiles.

Land	Sea	Air

Describe the size of Mesozoic mammals.

Sequence the likely events of the Cretaceous extinction event.



Summarize It Summarize the overall evolution of life during the Mesozoic era.

Lesson 4 The Cenozoic Era

Scan Lesson 4. Read the lesson titles and bold words. Look at the pictures. Identify three facts that you discovered about the Cenozoic era. Record your facts in your Science Journal.

Main Idea

Geology of the Cenozoic Era

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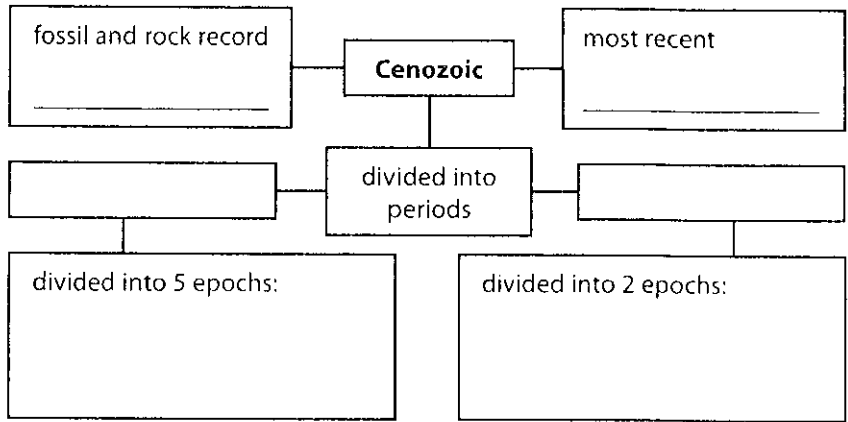
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Details

Examine the extent of the Cenozoic era.

The Cenozoic era began _____ million years ago, at the end of the _____ period of the _____ era, and _____ today.

Organize information about the Cenozoic era below.



Summarize Cenozoic mountain building activity.

Range	Activity
Himalayas	
Alps	
Rockies	
Cascades	
Sierra Nevada	
Appalachians	

Main Idea

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Details

Analyze why the ice age that occurred during the Pleistocene epoch resulted in more dry land.

Glaciers covered _____ of land surfaces.

_____ water was trapped _____.

Sea level _____.

Inland seas _____.

**Cenozoic Life—
The Age of Mammals**

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Order the evolution of life during the Cenozoic era.

1. Flowering trees and plants _____
2. A new type of plant, _____, appeared.
3. New food sources allowed evolution of _____
4. _____ thrived, and the Cenozoic became known as _____

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Contrast the size of Cenozoic mammals with that of Mesozoic mammals.

Mesozoic	Cenozoic

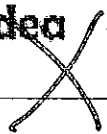
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Identify three examples of mega-mammals.

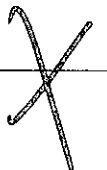
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|----|----|----|
| 1. | 2. | 3. |
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Main Idea

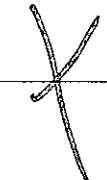
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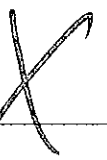
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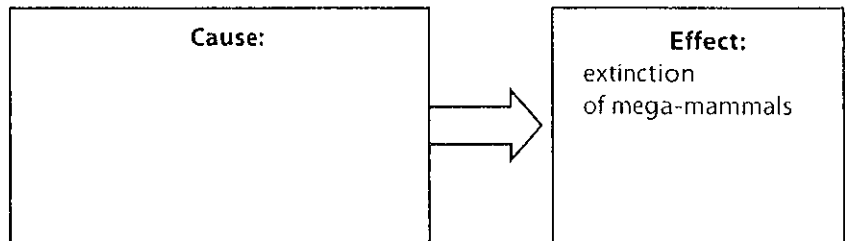
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Analyze the relationship between land bridges and evolution.

Summarize the evolution and migration of humans.

1. Human ancestors appeared nearly _____ years ago in _____.
2. _____ evolved during the _____ epoch.
3. Early _____ migrated from _____ to _____ and _____.
4. They later migrated to _____ across a _____.

Identify the cause of Pleistocene extinctions.



Describe the changes occurring on present-day Earth.

Analyze It Explain how the Cenozoic fossil record differs from the Mesozoic and Paleozoic records and why.
