the Paleozoic ecorded? get from the types o get from other orga n by natural selection ne organisms survivi		A View of Earth's Past	Holt Earth Science 11
Skills Worksheet) Directed Reading Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? Directed Reading Paleozoic Era			Copyright © by Holt, Rinehart and Winston. All rights reserved.
Skills Worksheet) Directed Reading Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? 3. The gradual development of new organisms from other organisms since the beginning of life is called			
Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? EVOLUTION 3. The gradual development of new organisms from other organisms since the beginning of life is called			 b. about 4.6 billion years ago c. after Precambrian time d. before Precambrian time
Skills Worksheet) Directed Reading Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Barth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? Precambrian Time and the paleozoic Era 1. What kind of information can scientists get from the types of rock and the fossils in a rock layer? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? 5. Climatic and geologic changes could affect an organisms since the beginning of life is called to			a. about 540 million years ago
Skills Worksheet) Skills Worksheet			c. a star d. a planet
Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? EVOLUTION 3. The gradual development of new organisms from other organisms since the beginning of life is called			7. What is a nebula? a. the newly formed sun b. a large cloud
Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? EVOLUTION 3. The gradual development of new organisms from other organisms since the beginning of life is called			PRECAMBRIAN TIME
Skills Worksheet) Directed Reading Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? EVOLUTION 3. The gradual development of new organisms from other organisms since the beginning of life is called		nisms survived over long	6. What do scientists study to learn why some organ periods and others became extinct?
Skills Worksheet) Directed Reading Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? EVOLUTION 3. The gradual development of new organisms from other organisms since the beginning of life is called 4. In what year was the theory of evolution by natural selection proposed, and by whom?		ganism's ability	5. Climatic and geologic changes could affect an org
Skills Worksheet) Directed Reading Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer? EVOLUTION 3. The gradual development of new organisms from other organisms since the		al selection proposed, and	heginning of life is called
Skills Worksheet) Directed Reading Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded? 2. What kind of information can scientists get from the types of rock and the fossils in a rock layer?		other organisms since the	EVOLUTION 3. The gradual development of new organisms from
Skills Worksheet) Directed Reading Section: Precambrian Time and the Paleozoic Era 1. Where is the geologic history of Earth recorded?		the types of rock and the	2. What kind of information can scientists get from fossils in a rock layer?
s Worksheet) rected Reading		aleozoic Era	Section: Precambrian Time and the Part. Where is the geologic history of Earth recorded?
Class Class	8 1 .4		Directed Reading
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Name_

Class_

Date_

Directed Reading continued

9. The time interval that began with the formation of Earth is called
a. the Cenozoic Era.
b. the Mesozoic Era.
c. the Paleozoic Era.
d. Precambrian time.

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ks of Precambrian shiel	16. How much of the world's minerals occur in the rocks of Precambrian shields?	16. How much of the world
ds.	15. Name four things that cause the formation of shields.	15. Name four things that o
ત a	14. A large area of exposed Precambrian rocks is called a	14. A large area of exposed
ause sils. terefore could not	 13. We know little about Precambrian time because a. no rocks exist from that time. b. Earth did not exist. c. no organisms existed so there are no fossils. d. Precambrian rocks were damaged and therefore could not be identified. 	a. no rocks exist from b. Earth did not exist. c. no organisms exist d. Precambrian rocks be identified.
d during Precambrian ti	12. About how much of Earth's history occurred during Precambrian time?a. 20%b. 40%c. 50%d. 88%	12. About how muc a. 20% b. 40% c. 50% d. 88%
end?	Approximately when did Precambrian time end? a. 3 million years ago b. 540 million years ago c. 1 million years ago d. 10,000 years ago	a. 3 million years ago b. 540 million years ago c. 1 million years ago d. 10,000 years ago
	10. When did Precambrian time begin?a. about 4.6 billion years agob. about 540 million years agoc. about 10 billion years agod. about 88 million years ago	10. When did Precambrian time b a. about 4.6 billion years ago b. about 540 million years ago c. about 10 billion years ago d. about 88 million years ago

Vame	Class Date
Directed	Directed Reading continued
17. What va	17. What valuable minerals are found in the rocks of Precambrian shields?
18. Name th	18. Name three possible reasons why fossils are rare in Precambrian rocks.
9. Precami	19. Precambrian fossils consisting of reeflike deposits formed by blue-green
algae are called 20. Where do stron	algae are called Where do stromatolites form today?
21. What do	21. What does the presence of stromatolite fossils in Precambrian rocks indicate?
THE PALEOZOIC ERA	ZOIC ERA
22.	22. When did the Paleozoic Era occur?
	a. before Precambrian time b. after Precambrian time c. before Earth was formed d. after the Macaroic Fra
23.	Approximately when did the Paleozoic Era begin?
	 a. 540 thousand years ago b. 248 million years ago c. 540 million years ago
24.	Approximately when did the Paleozoic Era end? a. 540 thousand years ago
	b. 5,000 years ago c. 5 million years ago
	d. 248 million years ago
	when the rateozoic tak begail, takinis tahuntasses were a. arranged much as they are today. b. located in a single region of the world.
	c. unstable due to tectonic activity. d. scattered around the world.
	as propertied and carry and motive

Directed Reading continued

Class.

Date.

26. By the end of the Paleozoic Era, Earth's landmasses had a. collapsed and dropped below sea level.

b. collided to form a supercontinent called Pangaea.

c. disappeared as a result of tectonic activity.
 d. lost all of their mineral deposits.

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In the space provided, write the letter of the description that best matches the

30. Which of the following organisms appeared during the

Cambrian Period?

c. marine life-formsd. marine vertebrates

a. primitive organismsb. mammals

29. What is the first period of the Paleozoic Era called?

a. Permian Periodb. Cambrian Period

c. Silurian Periodd. Carboniferous Period

a. fourb. sixc. sevend. three

28. How many periods is the Paleozoic Era divided into?

c. Paleozoic rocks were formed by tectonic activity.
 d. Paleozoic rocks are found only in North America.

How do Paleozoic rocks differ from Precambrian rocks?
 Paleozoic rocks contain many fossils.

b. Paleozoic rocks are much older.

term or phrase.

_ 31. brachiopod

_ 32. invertebrate _ 33. index fossil

a. a fossil that scientists use to date rocksb. the most common Cambrian invertebrate

 c. a shelled animal common during the Cambrian Period
 d. an animal that does not have a backbone

34. trilobite

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Directed Reading continued	Patt
35. Evidence of what type of organism has NOT been found in Cambrian rocks?	been found in Cambrian rocks?
In the space provided, write the letter of the description that best matches the term or phrase.	cription that best matches the
36. vertebrate a. one of the during the	 a. one of the dominant invertebrate life-forms during the Ordovician Period
37. cephalopod b. an animal	an animal that has a backbone
<i>ਦ</i>	c. a tiny invertebrate that lived in the ocean during the Ordovician Period
39. How did Ordovician fish differ from modern fish?	fish?
40. A scorpion-like sea creature that lived during the Silurian Period was	
41. In what period did the first land plants and land animals evolve?	the Silurian Period was
42. Another name for the Devonian Period is the	, the Silurian Period was and animals evolve?
term or phrase.	the 41. In what period did the first land plants and land animals evolve? 42. Another name for the Devonian Period is the in the space provided, write the letter of the description that best matches the
43. rhipidistian a. the first amphibians	the Silurian Period was animals evolve?
44. Ichthyostega b. an air-breathin crawl to land	e that lived during the Silurian Period was land plants and land animals evolve? nian Period is the sletter of the description that best matches the a. the first amphibians b. an ain-breathing fish with strong fins that could crawl to land
	that lived during the Silurian Period was und plants and land animals evolve? an Period is the etter of the description that best matches the the first amphibians an air-breathing fish with strong fins that could crawl to land a fish with the ability to breathe air
44. Ichthyostega crawl to land crawl to land c. a fish with the c. Name three types of plants that began to de	the Silurian Period was animals evolve? ription that best matches the itans fish with strong fins that could ability to breathe air elop during the Devonian Period.
44. Ichthyostega crawl to land crawl to land crawl to land 6. Name three types of plants that began to de	the Silurian Period was animals evolve? Ind animals evolve? Inption that best matches the sians fish with strong fins that could ability to breathe air elop during the Devonian Period.
44. Ichthyostega crawl to land crawl to land 45. lungfish c. a fish with the 6. Name three types of plants that began to de 17. Briefly describe the climate during the Carb	the Silurian Period was animals evolve? ription that best matches the pians fish with strong fins that could ability to breathe air elop during the Devonian Period.
stega les of plants ethe climate the climate	the Silurian Period was and animals evolve? Ind animals evolve? In prior that best matches the sians fish with strong fins that could bility to breathe air elop during the Devonian Period. Inferous Period.

3		
Dire	Directed Reading continued	
48	48. Briefly describe the landscape during the Carboniferous Period.	
49	49. What does the word carboniferous mean?	
50	50. Into what periods is the Carboniferous Period divided in North America?	
5	51. What organism from the Carboniferous Period is thought to be the modern ancestor of the sea star?	
52.	What did the vertebrates that appeared at the end of the Pennsylvanian Period look like?	
53	53. Which period marks the end of the Paleozoic Era?	
54	54. What event occurred at the end of the Permian Period that affected a large number of Paleozoic life-forms?	
55	55. What had happened to the continents by the end of the Permian Period?	
56.	What environmental changes had occurred by the end of the Permian Period?	
57.	57. Name two marine invertebrates that became extinct as a result of the environmental changes at the end of the Permian Period.	
5	58. What animals survived the environmental changes at the end of the Permian Period?	

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