8th grade: Modified Ms. Hanrahan's Days 11-20 Science NTI Assignments, 8 Gold

We will be learning about plate tectonics. Plate tectonics includes topics such as Pangea, convergent, divergent, and transform plate boundaries, continental drift, and seafloor spreading. You will see that the fossils we just learned about are a key piece of evidence supporting the theory of continental drift. You learned about plate tectonics in 6th grade, but we review it in 8th grade before you go to high school.

Days 11 and 12

- 1. Read "Section 3 Plate Tectonics"
- 2. Answer questions 1-3 in the "section 3 review"
- 3. Complete the "plate tectonics section 3 theory of plate tectonics" practice (actual document pages 76-78)

Day 13

1. Complete "Going Deep with Plate Tectonics" passage and questions

Day 14

1. Complete "Plate Boundary Homework"

Day 15 and 16

- 1. Read "Section 1 Continental Drift"
- 2. Answer questions 1-4 in the "section 1 review"
- 3. Complete the "plate tectonics section 1 continental drift" practice (actual document 70-72)

Day 17

- 1. Complete "Continental Drift CER"
- 2. Complete "Pangea Exists" newspaper article

Day 18 and 19

- 1. Read "Section 2 Seafloor Spreading"
- 2. Answer questions 1-5 in the "section 2 review"
- 3. Complete the "plate tectonics section 2 seafloor spreading" practice (actual document 73-75)

Day 20

- 1. Complete "Chapter 7 Review" questions 7-14
- 2. Complete "Chapter 7 Standardized Test Practice" questions 1-7 and 13-15

Additional Video Resources you can use to help you learn:

1. Go to YouTube: search "Plate tectonics" and watch the first video. It is published by BrainPop and is a little over 7 minutes long. We would have watched this in class at the beginning of the

Theory of Plate Tectoni

as you read

What You'll Learn

- Compare and contrast different types of plate boundaries.
 Explain how heat Inside Earth
- causes plate tectonics.
- Recognize features caused by plate rectonics.

Why it's Important P.77

Plate tectonics explains how many of Earth's features form.

P Review Vocabulary converge: to come together diverge: to move apart transform: to convert or change

New Vocabulary

- plate tectonics
 plate
- e lithosphere asthenosphere
- convection current

Figure 8 Plates of the lithosphere are composed of oceanic crust, continental crust, and rigid upper mantle.

Plate Tectonics **₹**

The idea of seafloor spreading showed that more than continents were moving, as Wegener had thought. It was clear to scientists that sections of the seafloor and continue move in relation to one another.

Plate Movements In the 1960s, scientists developed and theory that combined continental drift and seafloor spread According to the theory of plate tectonics Earth's crust and of the upper mantle are broken into sections. These sect called plates, move on a plasticlike layer of the mantle plates can be thought of as rafts that float and move on the

Composition of Earth's Plates Plates are made of crust and a part of the upper mantle, as shown in Figure These two parts combined are the lithosphere (LIH thuh shir This rigid layer is about 100 km thick and generally is less d than material underneath. The plasticlike layer below the sphere is called the asthenosphere (as THE nuh sfihr). The plates of the lithosphere float and move around on asthenosphere.

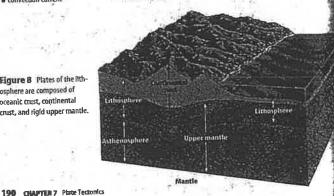


Plate Boundaries

plates move, they can interact in several ways. They toward each other and converge, or collide. They also part or slide alongside one another. When the plates he result of their movement is seen at the plate bound-Lyip Figure 9.

Divergent boundary Transform boundary

Reading Check What are the general ways that plates Interact?

ment along any plate boundary means that changes pen at other boundaries. What is happening to the cean floor between the North American and African mpare this with what is happening along the western South America.

Moving Apart The boundary between two plates that in apart is called a divergent boundary fou learned ivergent boundaries when you read about seafloor In the Atlantic Ocean, the North American Plate is way from the Eurasian and the African Plates, as shown 9. That divergent boundary is called the Mid-Atlantic c Great Rift Valley in eastern Africa might become a plate boundary. There, a valley has formed where a plate is being pulled apart. Figure 10 shows a side that a rift valley might look like and illustrates how the rial rises up where plates separate.

Figure 9 This diagram shows major plates of the lithosphere, direction of movement, and th type of boundary between then Analyze and Condude Base what is shown in this figure, wi happening where the Nazca Pla meets the Pacific Plate?

Diverge

SECTION 3 Theory of Plate Tectorales

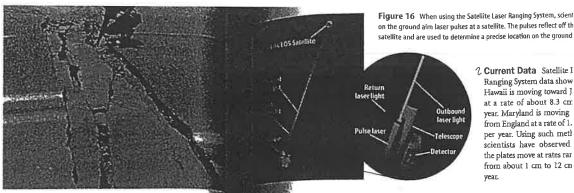
Pot 190

uses of Plate Tectonics Where Plates Collide A subduction zone also can new discoveries have been made about Earth's crust where two oceanic plates converge. In this case, the colder, denser oceanic plate bends and sinks down into the mantiener's day, but one question still remains. What causes Mariana Islands in the western Pacific are a chain of volto move? Scientists now think they have a good idea. **Modeling Convecti** islands formed where two oceanic plates collide. that plates move by the same basic process that Currents Usually, no subduction occurs when two continental en you heat soup. Procedure collide, as shown in Figure 10. Because both of these plat Ø • ¥ • Ø l less dense than the material in the asthenosphere, the two on Inside Earth Soup that is cooking in a pan on the 1. Pour water into a clea collide and crumple up, forming mountain ranges. Earthquate ins currents caused by an unequal distribution of heat colorless casserole dis are common at these convergent boundaries. However, Hot, less dense soup is forced upward by the surrounduntil it is 5 cm from the noes do not form because there is no, or little, subduction 2. Center the dish on a he denser soup. As the hot soup reaches the surface, it Himalaya in Asia are forming where the Indo-Australian plate and heat it. WAI sinks back down into the pan. This entire cycle of heatting cooling, and sinking is called a convection current. A mor this same process, occurring in the mante, is mought to ING: Wear thermal mi collides with the Eurasian Plate. to protect your hands. 3. Add a few drops of foo Where Plates Slide Past Each Other The third type force behind plate tectonics. Scientists suggest that coloring to the water plate boundary is called a transform boundary. Tran in density cause hot, plasticlike rock to be forced above the center of the boundaries occur where two plates slide past one another ward the surface. hot plate. move in opposite directions or in the same direction 4. Looking from the side when one plate slips past another suddenly, earth the dish, observe wha Mantie Material Wegener wasn't able to come up Figure 11 The San Andreas happens in the water. occur. The Pacific Plate is sliding past the North American explanation for why plates move. Today, researchers Fault in California occurs along the 5. Illustrate your observa forming the famous San Andreas Pault in California, as se by the movement of heat in Earth's interior have protransform plate boundary where in your Science Journ Figure 11. The San Andreas Fault is part of a transform eral possible explanations. All of the hypotheses use the Pacific Plate is sliding past the Anniysls boundary. It has been the site of many earthquakes. n in one way or another. It is, therefore, the transfer of 1. Determine whether ar North American Plate. Le Earth that provides the energy to move plates and currents form in the w any of Earth's surface features. One hypothesis is 2. Infer what causes the Figure 12. It relates plate motion directly to the moverents to form. Overall, the two plates are moving privection currents. According to this hypothesis, conin roughly the same direction. arrents cause the movements of plates. Explain Why, then, do the red arrows show movement in opposite directions? Ridge San Andreas Fault Figure 12 In one hypothesis, convection currents occur throug out the mantle. Such convection This photograph shows an aerial view currents (see arrows) are the driv of the San Andreas Fault. ing force of plate tectonics. SECTION 3 Theory of Plate Tectonics 194 CHAPTER F Plate Tectonics

Pg 194

Pg 195

Figure 15 Most of the movement along a strike-slip fault is parallel to Earth's surface. When movement occurs, human-built structures along a strîke-slip fault are offset, as shown here in this road.



2 Current Data Satellite I Ranging System data show Hawaii is moving toward J at a rate of about 8.3 cm year. Maryland is moving from England at a rate of 1. per year. Using such meth scientists have observed the plates move at rates rar from about 1 cm to 12 cm



Astrike-Slip Faults At transform boundaries, two slide past one another without converging or diverging stick and then slide, mostly in a horizontal direct along large strike-slip faults. In a strike-slip fault, rock opposite sides of the fault move in opposite directions. the same direction at different rates. This type of fault ment is shown in Figure 15. One such example i San Andreas Fault. When plates move suddenly, vibration generated inside Earth that are felt as an earthquake.

Earthquakes, volcanoes, and mountain ranges are evid of plate motion. Plate tectonics explains how activity i Earth can affect Earth's crust differently in different local You've seen how plates have moved since Pangaea separa Is it possible to measure how far plates move each year?

Testing for Plate Tectonics

Until recently, the only tests scientists could use to chec plate movement were indirect. They could study the mag characteristics of rocks on the seafloor. They could study noes and earthquakes. These methods supported the theor the plates have moved and still are moving. However, the not provide proof-only support-of the idea.

New methods had to be discovered to be able to me the small amounts of movement of Earth's plates. method, shown in Figure 16, uses lasers and a satellite. scientists can measure exact movements of Earth's plates

little as 1 cm per year.

section

Summary

ory of plate tectonics states that of the seafloor and continents plates on a plasticlike layer of

aries

of Plate Tectonics

ndary between two plates moving B called a divergent boundary. we together at a convergent boundary.

boundaries occur where two plates one another.

tion currents are thought to cause the cent of Earth's plates.

Caused by Plate Tectonics

forces cause normal faults, rift valleys, ocean ridges at divergent boundaries. Jent boundaries, compression forces olding, reverse faults, and mountains. orm boundaries, two plates slide past ther along strike-sllp faults.

Self Check

review

- 1. Describe what occurs at plate boundaries that are associated with seafloor spreading.
- 2. Describe three types of plate boundaries where volcanic eruptions can occur.
- 3. Explain how convection currents are related to plate tectonics.
- 4. Think Critically Using Figure 9 and a world map, deterraine what natural disasters might occur in what natural diseases so determine what diseases might occur irelandic diseases are not might occur i Iceland. Tibet, Ext expected to d cur in Tibet

App. mg Skills

- 5. Predict Plate teg vity causes many events gerous to that can be day nans. One of these or tsunami. Learn how events is a s smic sea wave edict the arrival til of a tsunami in a coastal a
- 6. Use a and Processor Write three parate descrip of the three basic types of plate tions ergent boundaries, convergent boundaries, as insform boundaries. Then draw a sketch of an daries, and example of each boundary next to your description.

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Physics

which directions do forces

gent, and transform bound-

forces using wooden blocks

aries? Demonstrate these

or your hands.

act at convergent, diver-

Direction of Forces In

Nine blue.msscience.com/self_check_quiz

SECTION 3 Theory of Plate Tectonics

pg 198

Name	Date
-10222	Date

Plate Tectonics

Section 3 Theory of Plate Tectonics

Pg 19	i	3	
	2	4	_
Review	Define the r	review terms to show their scientific meanings.	
converge	-		P
diverge	+		P5.
transform			29
THE REAL PROPERTY.		ok to define the following terms.	
plate			- pg
e			P
plate tectonics			pa 1
lithosphere			Pg
		V Comments	
asthenosphere			04
nvection current			Pq
			pg pg
Academic Vocabulary	Use a dictiona	ary to define rigid.	
(Vocabulary)	OSE a dietiona		
Vocabulary rigid	ose a alenona		

Section 3 Theory of Plate Tectonics (continued)

-Main Idea-

Causes of Plate Tectonics

I found this information on page ______

SE 195 RE p. 96

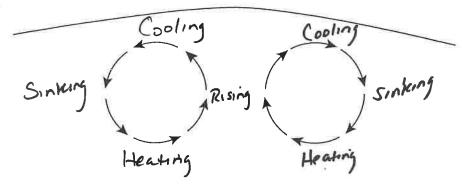
Features Caused by Plate Tectonics

I found this information on page ______.

SE Pp. 196-197

Details

Label the convection currents depicted below with heating, rising, cooling, and sinking.



Organize information to describe features caused by plate tectonics. Fill in the chart below.

Ι,		· · · · · · · · · · · · · · · · · · ·			
	Feature	e Description			
0	Rift valley	Being stretched or			
		P.19			
2	Folded and faulted	High mountains that form			
	mountains 0. 197	Where plates			
3	Strike-slip faults	Faults that form at transform boundaries where plates			
1	p198				

Testing for Plate Tectonics

I found this information on page _____

Summarize how the Satellite Laser Ranging System measures plate movement.	
	_

NAME

Going DEEP with PLATE TECTONICS

Study Guide and Practice

How do mountains form? Why do earthquakes happen? What is a volcano and why does it erupt? Throughout recorded human history, there were always questions like these trying to understand how or why these events happened. Questions such as these led to plenty of research from hundreds of scientists over the past century to find the answers. These answers were found! From the collected facts and evidence, there was a theory to explain it all... The Theory of Plate Tectonics!

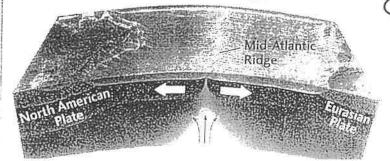
We live on a restless Earth, in which 7 major and 8 minor tectonic plates move about on the of the asthenosphere. Whether they are colliding, dividing, or sliding, these plates 3 are always in motion.) Where these plates meet, called plate boundaries, is where most of the earthquakes and volcanoes on Earth happen.

The Theory of Plate Tectonics underlines that the Earth forms new crust at the mid-ocean ridges. This crust begins to move outward to either side of the ridge. As it moves, it is forced below another plate where it is melted back into magma. Far into the geological future, this recycled crust emerges again at a mid-ocean ridge.

What causes the plates to move about? It's very simple really! It's called CONVECTION CURRENTS! Think of how boiling water in a pot moves... the hotter water rises up. Then, as the water moves to the pot's edge, it is forced back down to be heated back up again. Inside the Earth, instead of convecting water, it is convecting magma.

There are THREE types of plate boundaries: DIVERGENT, CONVERGENT, and TRANSFORM! Each of these give rise to new landforms and can cause many natural disasters.

Divergent Plate Boundaries are where plates are moving away from each other. This movement is found along mid-ocean ridges where new crust material is being formed.

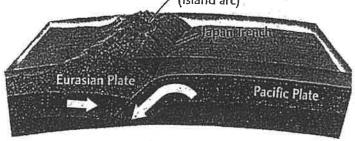


Convergent Plate Boundaries are where one plate subducts under crust that is less dense to be recycle back into the asthenosphere. There are three type o convergent plate boundaries:

TPBH

 Ocean to Ocean: when the crust of two oceanic plates meet, usually forming island arcs.

Japanese Islands
/ (island arc)



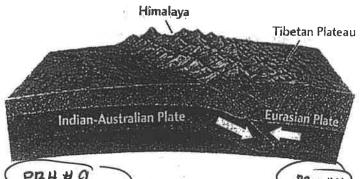
 Ocean to Continental: when ocean crust subducts under continental crust forming mountain chains

PBH # L 2^N Bullet

Repro Chilesilkando

South American:
Plate

 Continental to Continental: when two continental plates meet and buckle up forming large mountains



Transform Plate Boundaries are when plates move side by side with each other resulting in frequent

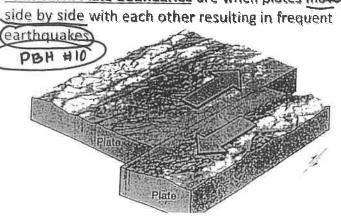
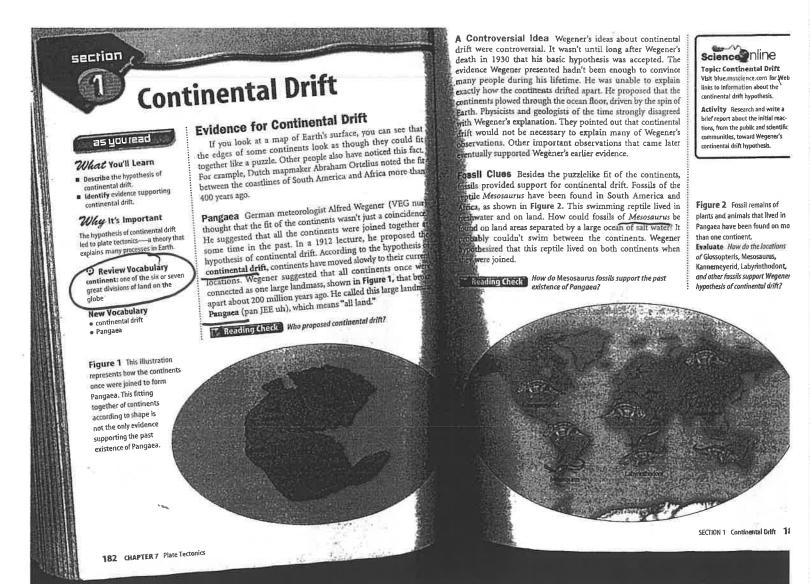


Plate Boundary Home Some Answer hint	s on "Going Deep with Plate Tectonics" article.
Hints will be: PBH1 (Gx) A	 What is the name of this type of boundary in Figure A? What type of features are found at this boundary? In the ocean On the continent Tiff valley How are these plates moving? Is this an example of a subduction zone? Yes or No
B	 5. What is the name of this type of boundary in Figure B? 6. What type of features are found at this boundary? Continental/Continental Continental/Oceanic Oceanic/Oceanic Under water volcanes 7. How are these plates moving? together or aparations. 8. Put a check by the ones that are subduction zones.
C	9. What is the name of this type of boundary in figure C? 10. What type of features are found at this boundary? 11. How are these plates moving? 12. Is this an example of a subduction zone? Yes or No



p. 182

P. 183

Plate Tectonics

Section 1 Continental Drift

Skim through Section 1 of your book. Write three questions that come to mind from reading the headings and examining the illustrations.

- 1.
- 2.
- 3.

Review Vocabulary

Vocabulary Define continent to show its scientific meaning.

continent

P. 182

New Vocabulary

Use your book to define the following terms. Then write an original sentence using each term.

continental drift

P. 182

Pangaea

p.182

_Academic.

Vocabulary Use a dictionary to define controversy.

controversy

M	2 *** 0	
1.4	ame	

Date ___

Section 1 Continental Drift (continued)

Main Idea

Details

I found this information on page_

years ago.

Model what the continents may have looked like 250 million Draw where

Star (A) is marked.

How could continents drift?

I found this information on page_

P. 185

Summarize Wegener's explanations of how and why continental drift occurs.

Wegener's explanation for continental drift

How:

BWhy: The continents are propelled by the commune of E

E	VA	LU	AT	E	
					•

Do you think it was reasonable for scientists initially to reject

the hypothesis of continental drift? Explain your response.

Reasoning Evidence Example: Fossils of the same againsm Example! tassils 25toen (07.70275 *plant, or dimate about glacier, rock evidence in your chart! you (will talk Examples South America and mountains in Europe. africa have matching Appalachain match

a large land mass that bake up and split apart. Imagine you are Alfred Wegener in 1915. Write your argument to support Continental Drift

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"All the News
That's Fit to Print"

The New York Times

Late Edition

New York: Today, cloudy, High 66. Tonight, slighly more humid. Low 55. Tomorrow, sun then clouds

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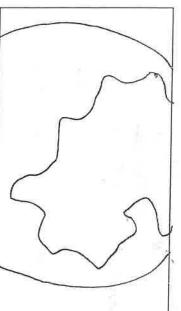
NEW YORK, TUESDAY, OCTOBER 6, 2015

PANGAEA EXISTS



Called Ringer Panges was in crowners when then the landmass has broken a court into their current positions today. This is a process I rall countinental drift.

There has been many fassils of the same species found in continents that aren't even close to each other. Fossils of the Mesosaury have been found in both buth



Plants also nelp support the Idea of Continental drift. Plants of the Species have been found in different countries

Such as: Africa, historia, India,

means that all of those continents were once together and nod have continents. Similar climades for the plant. Another piece to evidence that supports continental drift is rock. Mean mountains on different continents. The Apparachin mountains in America. Seem to connect with the mountains to America. Seem to connect with the mountains found in Western Europe. Percre



as you read

What You'll Learn

Explain seafloor spreading. Recognize how age and mag-netic clues support seafloor

Why It's Important

Seafloor spreading helps explain how continents moved apart.

Review Vocabulary seafloor: portion of Earth's crust that lies beneath ocean water

New Vocabulary

Figure 5 As the seafloor spreads apart at a mid-ocean ridge, new seafloor is created. The older seafloor moves away from the ridge In opposite directions.

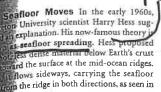
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Mapping the Ocean Floor

If you were to lower a rope from a boat until it reached seafloor, you could record the depth of the ocean at that parts ular point. In how many different locations would you ha do this to create an accurate map of the seafloor? This is ex how it was done until World War I, when the use of s waves was introduced by German scientists to detect marines. During the 1940s and 1950s, scientists began sound waves on moving ships to map large areas of the floor in detail. Sound waves echo off the ocean bottom longer the sound waves take to return to the ship, the de-

Using sound waves, researchers discovered an underwater system of ridges, or mountains, and valleys like those found the continents. In some of these underwater ridges are rath long rift valleys where volcanic eruptions and earthqui occur from time to time. Some of these volcanoes actualing visible above the ocean surface. In the Atlantic, the Pacific in other oceans around the world, a system of ridges, called mid-ocean ridges, is present. These underwater mountain ranges, shown in Figure 5, stretch along the center of muc Earth's ocean floor. This discovery raised the curiosity of scientists. What formed these mid-ocean ridges?

Reading Check How were mid-ocean ridges discovered?



seafloor spreads apart, magma is forced nd flows from the cracks. It becomes cools and forms new seafloor. As new oves away from the mid-ocean ridge, it ntracts, and becomes denser. This der seafloor sinks, helping to form the theory of seafloor spreading was later by the following observations.

Frading Check How does new seafloor form at mid-ocean ridges?

Monce for Spreading

968, scientists aboard the research ship Glomar began gathering information about the rocks on the Slomar Challenger was equipped with a drilling rig that ientists to drill into the seafloor to obtain rock samtists found that the youngest rocks are located at the n tidges. The ages of the rocks become increasingly imples obtained farther from the ridges, adding to the for seafloor spreading.

submersibles along mid-ocean ridges, new seafloor nd life-forms also were discovered there, as shown in As molten material is forced upward along the ridges, heat and chemicals that support exotic life-forms in in water. Among these are giant clams, mussels, and

Magnetic Clues Earth's magnetic field has a north and a south pole. Magnetic directions, of force leave Earth near the south pole and th near the north pole. During a magnetic reversal, the agnetic force run the opposite way. Scientists have ed that Earth's magnetic field has reversed itself many the past. These reversals occur over intervals of thoueven millions of years. The reversals are recorded in ning along mid-ocean ridges.

Figure 6 Many new discove have been made on the seaflor

These giant tube worms Inhab areas near hot water vents alo mid-ocean ridges.



Curie Point Find out what the Curie point is and describe in your Science Journal what happens to iron-bearing minerals when they are heated to the Curie poi Explain how this is important to studies of seafloor spreading.

SECTION 2 Seafloor Spreading

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Plate Tectonics

Section 2 Seafloor Spreading

Predict three things that might be discussed in Section 2 after reading its headings.

Review

Vocabulary Define seafloor. Then use the word in a sentence.

seafloor.

New Vocabulary

Use your book to define seafloor spreading. Then use the term in a sentence.

seafloor spreading

Academic Vocabulary

Use a dictionary to define interval. Then use the word in a sentence about magnetic clues to seafloor spreading.

interval

Section 2 Seafloor Spreading (continued)

-Main Idea-

Evidence for Spreading

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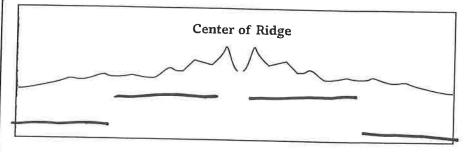
Choices:

newer rock I found this information on page_

Choices: North Ble South Ble

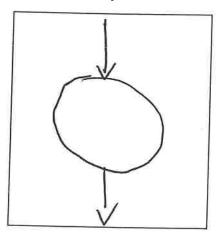
Details-

Label the diagram below to identify evidence for seafloor spreading. Add arrows to show the direction of spreading, and indicate where older rock and newer rock occur.



Model the polarity of Earth's magnetic field today.

- · Draw a sphere to represent Earth.
- · Label the north pole and south pole.
- · Draw arrows indicating the direction in which magnetic lines of force enter and leave Earth.



Summarize how reversals in the direction of Earth's magnetic field have provided svidence of seafloor spreading.

At times, the Lines ____ that pass through Earth have reversed _____ Reversals of Earth's magnetic field are recorded in ______that forms along mid-Q ridges Scientists can detect magnetized St sthat are paralled to mid-ocean ridges. This occurs on both sides of the -___s

Using Vocabulary

ntinental drift p. 182 ection current p. 195 phere p. 190

plate p. 190 plate tectonics seafloor spread

Each phras below describes a voca fulary term from the list. Write the term thay natches the phrase describing

- 1. plasticlike layer e lithosphere
- 2. idea that continent nove slowly across Earth's surface
- 3. large, ancient andmass that consisted of all the continents on Earth
- 4. composed of oceanic or continental crust and upper mantle
- 5. explains locations of mountains, tren d volcanoes
- theory proposed by Harry Hess that includes processes along mid-ocean ridge

Checking Concepts

Choose the word or phrase that best answers the question.

- 7. Which layer of Earth contains the asthenosphere?
 - A) crust
- c) outer core
- B) mantle
- D) inner core
- 8. What type of plate boundary is the San Andreas Fault part of?
 - A) divergent
- C) convergent
- subduction
- D) transform
- 9. What hypothesis states that continents slowly moved to their present positions on Earth?
 - A) subduction

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- G continental drift
- B) erosion
- D) seafloor spreading

Use the illustration below to answer question



- 10. Which plate is subducting beneath t South American Plate?
 - A) Nazca B) African
- 'O North Ameri
- D) Indo-Australi
- 11. Which of the following features are dence that many continents were at time near Earth's south pole?
 - A) glacial deposits C) volcanoes B) earthquakes
 - D) mid-ocean ri
- 12. What evidence in rocks supports the theory of seafloor spreading?
 - A) plate movement
 - B) magnetic reversals
 - c) subduction
 - D) convergence
- 13. Which type of plate boundary is the Atlantic Ridge a part of?
 - A) convergent B) divergent
- C) transform D) subduction
- 14. What theory states that plates move around on the asthenosphere?
 - A) continental drift
 - B) scaffoor spreading
 - O subduction
 - D) plate tectonics
- Science Niine blue.msscience.com/vecabulary_P

Thinking Criticall

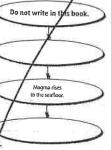
y do many earthquakes but few uptions occur in the Himalaya? Glacul deposits often form at high the poles. Explain why glabeen found in Africa. how magne ism is used to support

ory of seafloor spreading. why volcanoes do not form along Andreas Fault.

why the fossil of an ocean fish on two different continents would good evidence of continental drift.

theses Mount St. Helens in the e Range is a volcano. Use Figure 9 U.S. map to hypothesize how it have formed.

Map Make an events-chain concept hat describes seafloor spreading a divergent plate boundary. Chaose the following phrases: magma cools n new seafloor, convection corrents late hot material along dive gent dary, and older seafloor is forced apart



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Performance Activities

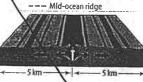
22. Observe and Infer In the MiniLab called Modeling Convection Current, you observed convection current produced water as it was heated. Repeat the experi ment, placing sequins, preces of wood, o pieces of rubber bandy into the water. How do their movements support your observations and inferences from the MiniLab?

Applying Math

wing Rift Movement along the African Ril Valley is about 2.1 cm per year. If plates conlinue to move apart at this rate, how much larger will the rift be (in meters) in 1,000 years In 15,500 years?

Use the illustration below to answer questions 24 and 25.

> Normal magnetic polarity Reversed magnetic polarity - Mid-ocean ridge



- 24. New Seafloor 10 km of new seaffoor has been created in 50,000 year with 5 km on each slide of a mid-ocean ridge. What is the rate of movement, In km per year each plate? In cm per year?
- 25. Use a Ratio If 10 km of seafloor were created in 50,000 years, how many kilometers of seaffoor were created in 10,000 years? many years will it take to create a total 30 km of seaffoor?

CHAPTER REVIEW 20