

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Chapter 14 The Ocean Floor****Section 14.1 The Vast World Ocean**

20 pts

*This section discusses how much of Earth is covered by water and how that water is studied.*


**Reading Strategy**

**Building Vocabulary** As you read the section, define each term in the table in your own words. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

4pts

Vocabulary Term	Definition
oceanography	a.
bathymetry	b.
sonar	c.
submersible	d.

**The Blue Planet**

- Is the following sentence true or false? The science of oceanography includes the study of the geological, chemical, physical, and biological characteristics of the world ocean. \_\_\_\_\_
-  Circle the letter of the percentage of Earth's surface covered by the global ocean.
  - 11 percent
  - 29 percent
  - 71 percent
  - 99 percent

**Geography of the Oceans**

*Match each description with its ocean.*

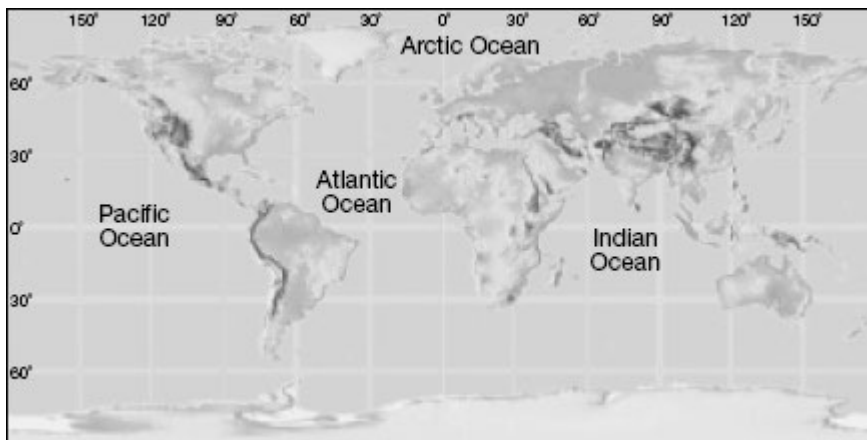
Description	Ocean
_____ 3. shallowest ocean	a. Pacific
_____ 4. located almost entirely in the Southern Hemisphere	b. Atlantic
_____ 5. about half the size of the Pacific	c. Indian
_____ 6. largest and deepest ocean	d. Arctic

**Chapter 14 The Ocean Floor**

4pts

7. Using the following map, list the names of Earth's four main ocean basins from smallest to largest.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_



8. Looking at the map, what ocean(s) does 0° longitude intersect?

\_\_\_\_\_

9. Look at the map and then circle the letter of the location of the Indian Ocean.

- a. 1°N 1°W
- b. 30°N 30°W
- c. 30°S 150°W
- d. 30°S 90°E

**Mapping the Ocean Floor**

10. Is the following sentence true or false? The ocean floor's topography is much less diverse than that of the continents.

\_\_\_\_\_

11. What do scientists call the charting of the ocean floor and the measurement of its depths? \_\_\_\_\_

12. Electronic depth-sounding equipment called \_\_\_\_\_ allowed scientists in the 1920s and later to precisely measure ocean depth.

13. How are satellites used to measure ocean surface height?

\_\_\_\_\_  
\_\_\_\_\_

14. Is the following sentence true or false? Submersibles make it possible for scientists to collect data from areas of the ocean that were previously unreachable. \_\_\_\_\_

Chapter 14 The Ocean Floor

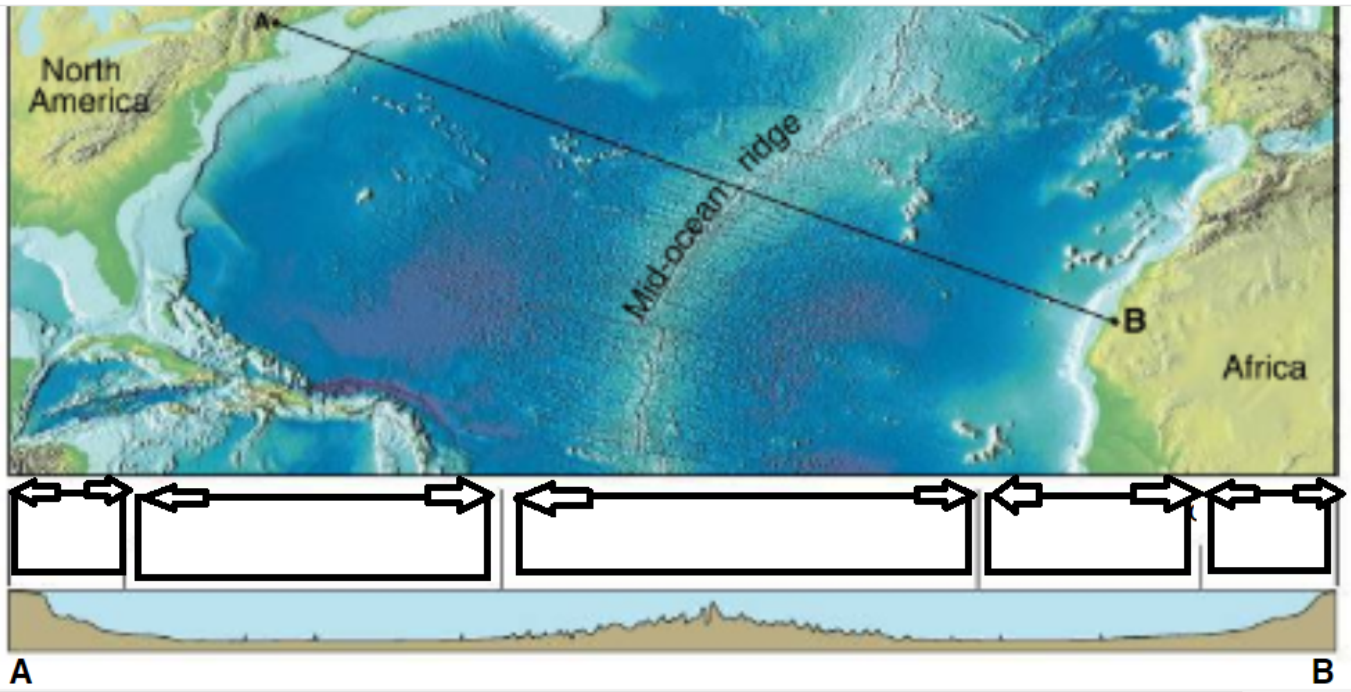
25 pts

# Section 14.2 Ocean Floor Features

This section discusses the features found in the three main regions of Earth's ocean floor.

5pts

LABEL THE TOPOGRAPHY OF THE NORTH ATLANTIC OCEAN BASIN BELOW



3pts

1. What are the three ocean floor regions that have their own unique characteristics? \_\_\_\_\_  
\_\_\_\_\_

### Continental Margins

2. A(n) \_\_\_\_\_ can best be described as a transition zone between an ocean basin floor and a continent.
3. What covers the Atlantic Ocean's continental margin?  
\_\_\_\_\_  
\_\_\_\_\_
4. Is the following sentence true or false? The continental margin of the Pacific Ocean has very little volcanic or earthquake activity.  
\_\_\_\_\_

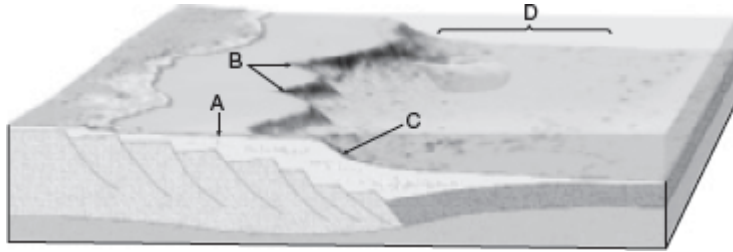
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**Chapter 14 The Ocean Floor**

4pts

5. Write the letter of each of the following features of the continental margin shown in the figure.

- \_\_\_\_\_ submarine canyon
- \_\_\_\_\_ continental slope
- \_\_\_\_\_ continental shelf
- \_\_\_\_\_ continental rise



3pts

6. What economic and political significance do continental shelves have? \_\_\_\_\_

\_\_\_\_\_

7. Circle the letter of occasional movements down the continental slope of dense water rich in sediment.

- a. submarine flows
- b. turbidity currents
- c. continental rises
- d. guyots

**Ocean Basin Floor**

8. Is the following sentence true or false? The area covered by the ocean basin floor is comparable to the percentage of land on Earth's surface that is above sea level. \_\_\_\_\_

Match each description with its ocean feature.

Description	Ocean Feature
_____ 9. submerged volcanic peak	a. abyssal plain
_____ 10. submerged, flat-topped peak	b. guyot
_____ 11. crease in the ocean floor formed where one plate plunges beneath another	c. seamount
_____ 12. flat feature formed when suspended sediments settle from turbidity currents	d. trench

**Mid-Ocean Ridges**

13. Circle the letter of the location where new ocean floor forms.

- a. mid-ocean ridge
- b. trench
- c. continental shelf
- d. continental rise

14. \_\_\_\_\_ is the moving apart of two plates at divergent plate boundaries.

**Chapter 14 The Ocean Floor**

**Section 14.3 Seafloor Sediments**

22 pts

*This section describes three types of ocean floor sediments.*

**Reading Strategy**

**Summarizing** Complete the table with all the headings for the section. Write a brief summary of the text for each heading. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

7pts

<b>Actions at Boundaries</b>
<p>I. Types of Seafloor Sediments</p> <ul style="list-style-type: none"> <li>• Terrigenous sediments originated on land. _____                1-- Come from? _____                _____</li> <li>2-- Composed of? _____                _____</li> <li>• Biogenous sediments are biological in origin. _____                1-- Come from? _____                _____</li> <li>2--Composed of? _____                _____</li> <li>• _____                1--Made by? _____                _____</li> <li>2-- Composed of? _____                _____</li> </ul>

1. Is the following sentence true or false? In general, as you move from the continental shelf toward the deep-ocean floor, sediments become coarser. \_\_\_\_\_
2. Circle the letter of the usual amount of seafloor sediments in a given location.
 

a. about 100 to 450 m	b. about 500 to 1000 m
c. about 100 to 450 km	d. about 500 to 1000 km




**Types of Seafloor Sediments**

3. Circle the letters of the three categories of ocean floor sediments.
 

a. terrigenous sediment	b. biogenous sediment
c. manganese sediment	d. hydrogenous sediment

**Chapter 14 The Ocean Floor**

Match how each sediment forms with its type of sediment.

- | <b>How Sediment Forms</b>   | <b>Type of Sediment</b> |
|---|-------------------------|
| _____ 4.  crystallizes directly from ocean water through chemical reactions                          | a. hydrogenous          |
| _____ 5.  accumulates on the ocean floor after erosion and transportation from land                  | b. terrigenous          |
| _____ 6.  accumulates on the ocean floor when marine animals and algae die and their hard parts sink | c. biogenous            |

7. Complete the following chart with the types and descriptions of how the three types of hydrogenous sediments form.

Types of Hydrogenous Sediments	How They Form

6pts

8. Biogenous sediment called \_\_\_\_\_ consists mostly of shells of radiolarians and diatoms.
9. Circle the letter of a material that, when buried and hardened, becomes a type of limestone.
- |                    |                       |
|--------------------|-----------------------|
| a. evaporates      | b. radiolarians       |
| c. calcareous ooze | d. calcium carbonates |
10. Ocean sediment made up of the calcium carbonate shells of marine organisms is called \_\_\_\_\_.
11. Is the following sentence true or false? Ocean-floor sediments are usually mixtures of the various sediment types.
- \_\_\_\_\_