**14.2 Ocean Floor Features pages 401-405** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. What are the three main regions of the ocean floor?

2. What does figure 6 on page 401 show? Study this for a minute.

3. Describe the continental margin in the Atlantic.

4. Describe the continental margin in the Pacific.

5. Why are the continental margins in the Pacific different from those in the Atlantic?

6. What does figure 7 explain? Study this for a minute.

7. How steep is the continental shelf? Why is the continental shelf important to us?

8. What features are cut into the continental slopes? What eroded these features into the slope?

9. What does fig 8 show? Study this for a minute.

10. What are trenches? How are deep ocean trenches formed?

11. What are abyssal plains? How are abyssal plains formed?

12. What is the difference between seamounts and guyots?

13. What is formed at mid-ocean ridges?

14. What happens as super heated waters from hydrothermal vents at the mid-0ocean rift come into contact

 with super cold waters of the deep ocean?



**Plate Tectonics**

**and**

**Ocean-Floor**

**Features**



Abyssal plain

Atolls

Continental rise

Continental shelf

Continental slope

Convection currents

Convergence

Divergence

guyots

Island Arc System

Mid ocean ridge

Rift valley

Seafloor spreading

Seamounts

Shoreline

SONAR

Subduction

Submarine canyon

Transformfault

Trench

**Across**

2. …in the upper mantle, drive plate tectonics and sea-floor spreading.

4. Ring-shaped coral reefs. (plural)

6. When an ocean plate goes under another plate and melts.

8. The steep drop to the deep-ocean floor that marks the edge of the continent shelf.

11. When plates collide (come together).

13. A long continuous range of mountains on the sea floor that has a central rift valley. Sea-floor spreading.

15. Underwater canyons that cut across the continental shelf. Contain fast moving mud flows.

16. Sliding plate boundaries. Ex. San Andreas Fault in CA

17. Gently sloping submerged part of the continental margin extending from shoreline to slope.

18. When plates move away from one another (pull apart). Cracking, tearing, rifting.

19. Deep faulted valley found along divergent plates.

**Down**

1. New crust is formed where the ocean crust splits open and moves apart. This ‘drives’ plate motion.

3. Very level area of the deep-ocean floor…covered by lime (CaCO3) and clay mud.

5. Islands formed as a result of subduction of two ocean plates. Ex….Japan and Philippines.

6. Where the ocean meets the land.

7. Gently sloping surface at the base of the continental slope where sediments pile up.

9. Underwater volcanic mountains. (plural)

10. Deepest part of the ocean floors where plates are subducted.

12. Sound Navigation And Ranging.