

Chapter C4 Study Guide COMPLETED

1. SALINITY % of salt in ocean water
2. WATER PRESSURE weight of water pressing on an object
3. SONAR sound waves that can be used to map the ocean floor.
4. DESALINATION removal of salt from sea water
5. TIDE POOL pool of sea water found along a rocky shoreline
6. SUBMERSIBLE small underwater vehicle
7. SHORE area where ocean and land meet
8. SCUBA self-contained underwater breathing apparatus
9. CURRENT stream of water that flows like a river through the ocean
10. TIDE repeated rise and fall in the level of the ocean
11. WAVE up-and-down movement of surface water
12. JETTY wall of rocks built out into the ocean.
13. HEADLAND rocky point along a shore
14. A RIP CURRENT flows away from the beach
15. Scientist discovered vents along the ocean ridge by using the ALVIN SUBMERSIBLE
16. TIDES are caused by Earth's rotation and the gravitational pull of the moon and the sun
17. Differences in WATER TEMPERATURE cause deep-ocean currents.

18. Earth's rotation causes ocean currents to bend to the right in the __NORTHERN__ Hemisphere.
19. Waves form because __WIND__ blows over the surface of the water.
20. Water in a wave moves in a __CIRCLE__
21. The salinity of ocean water comes from __MINERALS
22. Increased friction with the ocean bottom decreases the speed of a wave, causing it to grow into a __TSUNAMI__ when it reaches the shore.
23. __DEEP-OCEAN__ currents affect a submarine on the ocean bottom.
24. __SONAR__ is used to measure the depth of the ocean.
25. A __HEADLAND__ may be all that remains when soft rock erodes
26. The deeper you go in the ocean, the __GREATER__ the water pressure becomes.
27. Because of __EROSION__, a rocky beach may become a sandy beach.
28. __SALT__ can be found in the ocean.
29. The removal of salt from the ocean water is called __DESALINATION__.

Be able to answer the following questions. We have discussed these in class.

Are tides higher when the moon is full? Why or why not? *It doesn't matter whether the moon is full or not. The tides are higher when the moon is in a straight line with the sun and Earth.*

Name the 4 large oceans. *Pacific, Atlantic, Indian and Arctic*

What is the name of the flattest part of the ocean floor? *Abyssal plain*

What causes tides? *The pull of gravity of the moon and the sun on Earth's waters*

How do waves change the shore? *They erode the shoreline*

What is a tide pool? *A tide pool is a pool of seawater found along a rocky shoreline.*

Suppose that a boater sails a large boat almost onto shore during high tide. Explain what will happen if the boater tries to leave during low tide. *The boater will be stuck and will have to wait until high tide to leave.*

Name 3 pieces of technology used to explore the ocean. *Scuba equipment, submersibles, satellites and sonar equipment.*

What is a jetty? *A jetty is a wall-like structure made of rocks that sticks out into the ocean.*

Who invented the Aqua-lung? *Jacques Cousteau*

What famous shipwreck was explored with submersibles? *The Titanic*

Name 2 kinds of places that submersibles are used to explore.
Sea caves and shipwrecks

BONUS QUESTION ** What does SCUBA STAND FOR?

S = self

C = contained

U= underwater

B= breathing

A= apparatus

