Study Guide Chapter 11 – The Oceans

GPS: S6E3. Students will recognize the significant role of water in Earth's processes.

c. Describe the composition, location, and subsurface topography of the world's oceans.

d. Explain the causes of waves, currents, and tides.

E5. Students will investigate the scientific view of how the earth's surface is formed.

Explain the effects of physical processes on geological features including oceans.

S6E6. Students will describe various sources of energy and with their uses and conser

a.	Explain the	role	or the Sun as	the major	source of	energy a	nd the	Sun	s relationship	to wind	and	water	energy.

1. Three things that make studying the ocean floor so difficult are <u>CXTreme</u> <u>Pressure</u> , <u>Cold temperature</u> and <u>Clarkness</u>
2. Sonce is a technological system that uses sound waves to calculate the distance to an object on the deep ocean floor.
3. The smooth, nearly flat region of the ocean floor that is covered with thick layers of sediment is called an abuse of plan.
4. The <u>mid-o(eco ridge</u> is made up of a range of mountains that winds through the oceans.
5. Most waves form when blowing across the water's surface transmit their energy to the water.
6. The horizontal distance between crests of a wave is the www.elength.
7. The vertical distance from the crest to the trough is the Wave height which can be very destructive in a tsunami.
8. A tsunami is caused by an <u>Carth quake</u> beneath the ocean floor.
9. The strong roots of dune plants, such as beach grass, hold the sand in place and reduce beach <u>evosion</u>
10. The daily rise and fall of Earth's water on its coastlines are called
Tides are caused by the interaction of the Sun, moon, and the Carth.
12. The greatest difference between the heights of high and low tide are called a Spring tide.
13. The least difference between the heights of the high and low tide are called a $\frac{nec_p}{nec_p}$
14. Tidal power can be a useful part of an overall plan to generate executive city.
15. The total amount of dissolved salts in a sample of water is the <u>Salihity</u> of that sample of water.
16. Sodium Chloride (table salt) is the salt present in the greatest amount in ocean water.
17. 14 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
18. As you descend through the ocean, the water temperature
19. A Curent is a large stream of moving water that flows through the oceans.
20. In the Northern Hemisphere, the Coriolis Effect causes the currents to curve to the right.
21. The largest and most powerful surface current in the North Atlantic is called the Gulf Stream.
22. Nino is the abnormal climate event that occurs every two to seven years in the Pacific Ocean.
23. The currents that cause chilly waters to creep slowly across the ocean floor are caused by differences in the density of the ocean water.