



Movie 1: Ocean Gyres

1. Write the names of the gyres above

A= _____

B= _____

C= _____

D= _____

E= _____

2. _____ are large circular currents that flow in the oceans.
3. _____ gyres spin clockwise in the northern hemisphere and _____ in the southern hemisphere.
4. Subpolar gyres are _____ and spin counter clockwise in the _____ hemisphere and clockwise in the southern hemisphere.
5. Are there any subpolar gyres drawn in the picture above?
6. What continent does the Antarctic circumpolar current encircle?

Movie 2: Surface Currents and Deep Currents

7. Which currents are at the top of the ocean? _____
8. Which currents are at the bottom of the ocean? _____
9. Surface currents are controlled by the _____.
10. Surface currents are also controlled by _____ off of _____.
11. The Coriolis effect (which also affects surface currents) makes currents and wind appear to be _____ due to earth's rotation.
12. Deep currents are _____, _____, and _____.
13. Deep currents move _____.
14. Oceans distribute _____ by way of currents.
15. The Ocean steals warm water from the _____ and give it to the cold.
16. The Ocean steals cold water from the _____ and give it to the warm.

Movie 3: How Deep Currents Work

17. The deep ocean currents make a continuous stream making a loop called the global _____.
18. Water freezes and leaves _____ behind.
19. The water's _____ increases and the water sinks.
20. The Antarctic _____ current circles around Antarctica.
21. Winds displace the warm surface water, then cold water wells up from _____.
22. It takes about _____ years for water to flow through the entire conveyor
23. The global conveyor belt cycles heat, salt, and _____ across the globe.

Movie 4: Marine Life and Upwelling

Upwellings _____ forests of giant kelp.

Urchins _____ the holdfasts of the kelp.

The sunflower starfish eats brittle _____ using its feet to _____ for prey.

Sanddollars are really flat _____.

Upwellings near Africa support _____ colonies.

The spots of pigment are used for _____.

Who is the even bigger predator on the prowl? _____