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## **Currents, Climate & Water Cycle Web Quest**

#### **Directions**

- You may write your answers on this paper.
- Go to http://trackstar.4teachers.org and enter in View Track #457226 'Go'
- Select View in Frames to gain access to the websites needed to complete the web quest

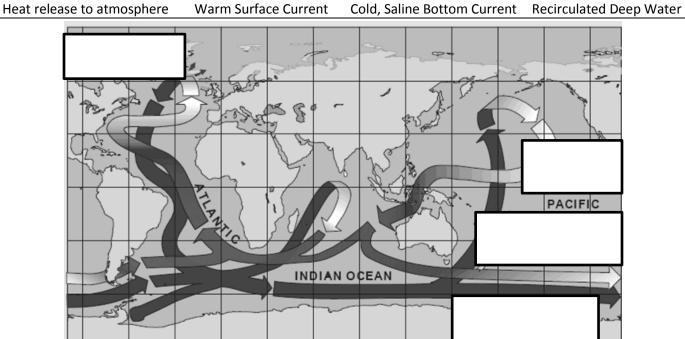
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1. What are	the two types of currents and how is each type cause	d?
A)	currents are mostly caused by the	because it creates friction as it moves
over the wat	er.	
	also plays a role in the movement of these currents	because the top of the ocean is uneven.
в)	currents, are also called	
	s a role in their creation, but these currents are mainly erature and salinity.	caused by differences in the water

**Phrase Bank** 

### Website #2: The Ocean Conveyor Belt

2. In the diagram label the following:



#### 3. Thermohaline Circulation Implications for Climate:

A) The thermohaline circulation plays an important role in supplying \_\_\_\_\_\_ to the polar regions.

## Website #3: Currents Quiz

- 4. Take the online quiz to get you feedback on your level of expertise.
- 5. Why do surface waters sink in the North Atlantic ocean?

Website #4: What is nappening in the ocean? (Video Not Required)  6. How much of Earth's water is contained in the oceans?%  7. The ocean does an excellent job of absorbing excess heat from the atmosphere. What will happen if the ocean get too warm?						
8. How does the ocean soak up CO <sub>2</sub> ?						
9. How does the ocean affect the climate?						
Website #5: Water Cycle Review  10. Complete the diagram by first clicking on the colored recta  11. The diagram shows infiltration, but not percolation. As a rebetween infiltration and percolation?						
Website #6: Groundwater  12. Groundwater is all the water that has penetrated the earth blanks and label the diagram below.  A) The surface layer is exposed to the atmosphere	n's surface and is found in one of two soil layers. Fill in the					
B) Zone of is filled with both air and water	←					
C) Zone of is filled with water	<del></del>					
between these two layers.	←					
Website #7: Porous vs. Permeable  13. What is the difference between porous and permeable?	Homework					

# Website #8: Concept Map for The Flow of Fresh Water Use this website to create a concept map summarizing groundwater



## Website #9: Build Your Own Aquifer

14. Click on Introduction.

A) Underground sources of water are called



Click on the right arrow to keep advancing through the rest of the introduction.

Jump to section 3 to see an example of an aquifer.

B) How does this lab experiment display the importance of preventing harmful runoff and water contamination?

Website #10: Finished Early? Play the Droplet and the Water Cycle! http://kids.earth.nasa.gov/datwc.html

**Rules:** Avoid pitfalls and predators while you navigate through several challenging levels of the hydrological cycle. **Controls:** Hold shift to increase speed; space bar to jump; arrow keys to climb up/down and move left/right. You can catch rides on leaves, but avoid other disasters that will break your water drop!

**Goal:** Make it to the orange triangle medallion to move through stages of each level

#### **REMINDERS!**

- Homework Page from Week 2 due on Friday, January 30<sup>th</sup>
- Quiz on Friday, January 30<sup>th</sup> Study Homework Pages from Week 1 and Week 2 for the quiz