Tides & Currents Webquest



Instructions. Read these instructions carefully before proceeding. Connect to Log on to the NOAA site at: http://oceanservice.noaa.gov/education/kits/currents/welcome.html. Download the Tutorial located in the upper right margin of the pages. Create a folder for this titled "Tides Currents". In this way, if you get disconnected from the Internet, you still have some reference information to work with.

Next, carefully read through each section of this resource, answering the items below as you proceed. Be certain to play all animations, and enlarge and study all diagrams. And yes, I expect you to read the whole thing and to answer all the items. You will need to print your assignment so that you can put it into your notebook.

8. What three factors contribute the most to the formation of coastal currents?

9. What factors affect wave height?
10. What effect does wave angle and wave velocity have on longshore currents?
11. How do rip currents form, and why are they potentially dangerous?
Surface Currents
12. What drives surface currents?
13. Explain the influence of the Coriolis effect on wind and water currents.
14. How do ocean gyres form?
15. What are the five major ocean gyres?
The Global Conveyor Belt
16. What drives deep ocean currents?
17. How might global climate change affect the global conveyor belt?
18. What do you think might happen if global climate change affected the global conveyor belt?
How Are Currents Measured?
19. Briefly describe the various ways ocean currents are measured.

