
PLEASE SUBMIT YOUR WORK THROUGH GOOGLE CLASSROOM

1. Re-watch NASA's "Perpetual Ocean" visualization of global ocean *surface* currents:

<https://www.youtube.com/watch?v=xusdWPuWAoU>

2. What creates surface currents in the ocean?

3. Where do deep cold ocean currents form (start)?

4. **Alcatraz** was a maximum high-security Federal prison on Alcatraz Island, **just 1.25 miles off the coast of San Francisco, California**, which operated from 1934 to 1963. During its 29 years of operation, the penitentiary claimed that **no prisoner successfully escaped**. Out of 14 escape attempts made by a total of 36 prisoners, 7 men were "lucky" enough to get "safely" into the water...

Question: what is the main NATURAL☺ reason why they were not able to reach **the shore?** (Hint: refer to Slide #3 of Lecture 20; look specifically for the current that passes Northern California...you can also use information from slides #3-4 of Lecture 19)