

## CBGS Summer Assignment

### 2020-2021 School Year

In the history of the world, there are a few special people who become synonymous and iconic in association with their life's work and passions. When you think of Physics, you think of Albert Einstein; Art- greats like Michelangelo or Monet; when you think of America you think of George Washington or Thomas Jefferson; Rock n' Roll you think of Elvis Presley; when we think of the ocean, you should think of Dr. Sylvia Earle. You may not have heard of Dr. Earle in your young life yet, but you should not only hear her story, but also learn of her life's mission- to protect our planet's oceans.



Known the world over as “Her Deepness”, Dr. Sylvia Earle grew up as a normal little girl in a small town in New Jersey, and through her education, her life experiences and her incredible fearlessness, she has become the greatest living oceanographer, and one of the greatest of all time. Dr. Earle's life and work will not only teach you about the oceans and marine life but also will teach you about having passion for your life's work, having courage, determination, and fearlessness in the face of real risk, and about dedicating yourself to a better, future world. Dr. Earle is the embodiment of a scientist's passion for her subject and the motivation for protecting and conserving the precious natural resources of our planet.

#### Your mission:

I. *Build Background Knowledge:* Meet Dr. Sylvia Earle and view the TED talk: [TED- Sylvia Earle's Wish](#)

II. *Explore-* What is a Marine Protected Area? Why should we use this approach? What are the challenges? Read these articles:

- Pew Charitable Trusts- [How Marine Protected Areas Safeguard the High Seas](#)
- [Yale 360-Will Large Protected Areas Save the Oceans or Politicize Them?](#)
- Optional: Take the quiz: [How much do you know about marine protected areas?](#)



III. *Learning*-Option 1: Watch the documentary: Dr. Earle's Hope Spot Wish in Action: [Mission Blue- Dr. Sylvia Earle](#). This documentary is only available on Netflix.

OR

Option 2: View a [lecture version](#) on YouTube from the UC Berkeley Graduate Council Lecture series in which Dr. Earle discusses Mission Blue.



IV. *Writing Assignment*: Reflect on what you have learned about Dr. Earle's vision for marine Hope Spots to preserve local marine resources and biodiversity. Now that you have learned about Dr. Earle and about the idea of marine protected areas, let's think about this problem locally. In our own neighborhood, the Chesapeake Bay has two critical habitats that have been largely destroyed: oyster reefs and submerged grass beds.

Devise a written argument in which you present benefits and some concerns or challenges we might face with the creation of conservation areas in the Chesapeake Bay. Include responses to the following as you craft your response:

- Based on what you have learned here, do you think we should create Hope Spot Marine Protected Areas\* in the lower Chesapeake Bay? Why or why not?
- If you answered yes to the question above, what measures could you enact that would improve the chances for success and help get as many people as possible on board with this conservation idea?
- In your answer, use examples and specifics to explain the costs and benefits of the proposed protected area.
- In your writing, try to be succinct, and make sure to check your spelling and grammar. Your essay should be no more than 2 pages typed, double spaced, 12 font.
- **This essay will be due to your Marine and Environmental Science teacher on the first day of school.**

*\*According to the Pew Trust reading, "The International Union for Conservation of Nature defines a protected area as 'a clearly defined geographical space, recognized, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values.' MPAs range from multiple-use areas, in which certain types of activities—such as fishing—are allowed, to no-take areas where all extractive activities are banned."*

**For more information and access to the data:**

[Protected Planet- Explore the World's Marine Protected Areas](#)  
[Marine Protected Area Atlas](#)