

Name: _____ Date: _____ Period: _____

Ocean Webquest

Directions: With a group of 2-3, work together to complete the following questions. Use the websites provided.

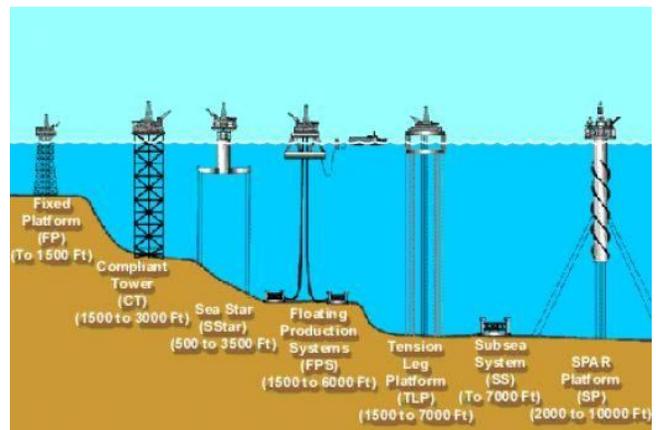
Ocean Resources

Go to <http://marinebio.org/oceans/ocean-resources/> and complete the chart below.

	How is the resource helpful or beneficial to humans?	How is the resource bad or harmful to the Environment?
Fishing		
Shipping		
Tourism		
Mining		

Drilling for Oil

Another ocean resource is oil, and we drill in to the ocean floor to obtain it. The oil is then used as an energy source, or it can be refined into gasoline/fuel. It has been estimated that humans use more than 80 million barrels of oil a day! One of the negative impacts of drilling for oil are oil spills in the ocean. Also, the seismic waves created from the drilling can disrupt marine ecosystems.



Go to <https://www.youtube.com/watch?v=3DbSIag3F3A> and watch the video and answer the question...

How do we clean up oil spills?

Ocean Technology

Go to <http://oceanexplorer.noaa.gov/technology/technology.html> and click on the links and find the information to complete the chart.

	Description - <i>*How does it explore the Ocean?</i>
<p>Scuba Diving Follow the link “Diving Technologies”</p>	
<p>Sonar Follow the link “Observing Systems and Sensors”</p>	
<p>Satellites Follow the link “Observing Systems and Sensors”</p>	
<p>Submersibles and ROV’s Follow the link “Platforms: Submersibles”</p>	

Ocean Zones

Go to <http://www.nhptv.org/natureworks/nwep6c.htm> and answer the questions that follow.

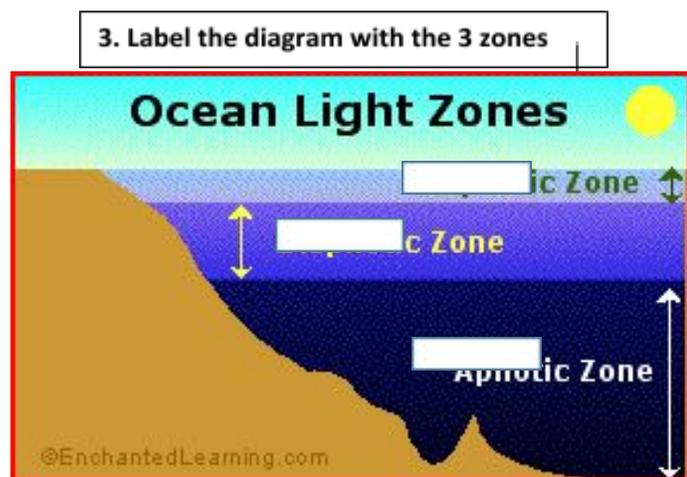
1. What 2 basic zones is the Ocean divided into? Where are they?

2. Describe each zone:

Euphotic/Sunlight Zone -

Dysphotic/Twilight Zone -

Aphotic/Midnight Zone -



Go to <https://www.youtube.com/watch?v=uKhp6lAH1k> and watch the video about the ocean zones. Answer the questions below based on the video:

1. Photosynthesis occurs in which ocean zone?
2. _____% of life lives in the Sunlight Zone.
3. Why can plants NOT live in the twilight zone?
4. Sharks can live in the _____ and the _____ zones.
5. The _____ zone is at the bottom of the ocean and receives no _____.

Go to <https://www.youtube.com/watch?v=U69Llr0OrNc> and watch the video.

1. What is marine snow?
2. How do Anglerfish catch their prey in the midnight zone?
3. What is Bioluminescence?
4. Why is dwarfism a beneficial adaptation for animals that live at the bottom of the ocean floor?
5. Why do some animals become giants in the midnight zone?

Hydrothermal Vents

Go to <http://oceanservice.noaa.gov/facts/vents.html> and answer the questions below.

1. Fill in the blanks - Hydrothermal vents form at locations where _____ meets _____.
2. Where are Hydrothermal Vents located in the ocean?
3. Can anything survive in/around a Hydrothermal Vent? Why?

Ocean Currents

Go to <http://nationalgeographic.org/media/ocean-currents-and-climate/> and watch the video and then read about

Ocean Currents and Climate.

1. What are surface currents driven by?
2. What are deep currents driven by?
3. How does an upwelling and a downwelling form?

Go to <https://www.youtube.com/watch?v=UuGrBhK2c7U> and watch the video about the Gulf Stream. If you find the video difficult to understand, then you can also visit this site to answer the question below -

3. Explain how the Gulf Stream (a warm ocean current) effects the climate of Northern Europe.

For Fun - *Only if you have extra time!*

Go to

<https://coast.noaa.gov/data/SEAMedia/Interactive%20Games/G3%20U2%20Interactive%20Open%20Ocean%20Habitias.html> and play the game about Ocean Zones.

Go to <https://coast.noaa.gov/psc/sea/content/aquatic-food-chains.html> and play the game about Ocean Food Webs.

Go to <https://www.youtube.com/watch?v=Ju-AEhX8FT4> and watch the video called "25 Terrifying Sea Creatures That Actually Exist"

