





Name: \_\_\_\_\_

# Science SOL 5.6a

	<h2 style="text-align: center; background-color: #92d050; padding: 5px;">Engage</h2> <p>Use BrainPop to introduce Oceanography: <a href="https://goo.gl/ykMUzE">https://goo.gl/ykMUzE</a></p>	<input type="checkbox"/>
	<h2 style="text-align: center; background-color: #6495ed; padding: 5px;">Explore</h2> <p>Click <a href="#">here</a> to view a diagram of the ocean floor.</p> <p>Explore the different parts of the ocean floor: <a href="https://goo.gl/3ch6V">https://goo.gl/3ch6V</a></p> <p>Use the Virtual Lab to explore and label the ocean floor. Use the reference button for help: <a href="https://goo.gl/RIVRlg">https://goo.gl/RIVRlg</a></p>	<input type="checkbox"/>
	<h2 style="text-align: center; background-color: #6495ed; padding: 5px;">Explore the Science Textbook</h2> <p>Read pages 492-499 (Student Edition). On page 500, answer box #1. Complete pages 501 and 502 for added practice. <a href="https://goo.gl/Eiadj4">https://goo.gl/Eiadj4</a></p> <p>Complete the digital lesson (Teacher Access): <a href="https://goo.gl/3fkQPh">https://goo.gl/3fkQPh</a></p>	<input type="checkbox"/>
	<h2 style="text-align: center; background-color: #d62728; padding: 5px;">Explain</h2> <p><i>The student will investigate and understand characteristics of the ocean environment. Key concepts include: Geological characteristics.</i></p> <p>Play the study guide in the first box: <a href="https://goo.gl/RJwz1v">https://goo.gl/RJwz1v</a></p> <p>Discovery Education Video (Ocean Floor): <a href="https://goo.gl/xX1AFX">https://goo.gl/xX1AFX</a></p>	<input type="checkbox"/>



## Apply

Choose from one of the options to show what you know about the ocean floor.

- 1) Create a PowerPoint with a title slide and a slide for each of the following 5 concepts: continental shelf, continental slope, continental rise, abyssal plain, ocean trench. Each slide should have information about each concept and a picture.
- 2) Use Pixie to create a diagram of the ocean floor. Label the 5 concepts listed in option #1 on your diagram.
- 3) If using an iPad, use the Educreations app to create a slideshow with voice recording. Create 5 slides and insert a picture of each concept on each slide. Use the recording button to record. Save and publish the video when completed (will save to Photos).



## Share

Share your completed project with 2-3 classmates for review. Explain how you created your project and what you learned about the concepts.



## Reflect

Can you name and label all parts of the ocean floor?  
Oceans cover what percentage of the earth's surface?



## Extend

Use Google Earth, select the "Oceans" tab and dive into the ocean to explore the ocean floor. Click available links to learn more.


Play a vocabulary matching game: <https://goo.gl/F9iYvW>


Who Wants to Be A Millionaire: <https://goo.gl/DXyi14>


Concentration: <https://goo.gl/Yv2zeZ>


Create a Mentimeter account (<http://www.mentimeter.com>).

Create a word cloud and have students respond with key vocabulary from this section

	<b>Engage</b>
	Use BrainPop to introduce Ocean Currents: <a href="https://goo.gl/3ZFF6D">https://goo.gl/3ZFF6D</a>

	<b>Explore</b>
	<p>Explore the ocean wave simulator: <a href="http://david.li/waves/">http://david.li/waves/</a> . How does wind and depth affect waves?</p> <p>Explore the Smithsonian on currents, waves, and tides. How is each formed? What are some similarities and differences? <a href="https://goo.gl/orduFJ">https://goo.gl/orduFJ</a></p>

	<b>Explore the Science Textbook</b>
	Click the following links to complete the digital lessons: <a href="https://goo.gl/wWcEr5">https://goo.gl/wWcEr5</a> , <a href="https://goo.gl/joXM7u">https://goo.gl/joXM7u</a>

	<b>Explain</b>
	<p><i>The student will investigate and understand characteristics of the ocean environment. Key concepts include: Physical characteristics.</i></p> <p>Play the study guide in the first box: <a href="https://goo.gl/eJFcZR">https://goo.gl/eJFcZR</a> Play the study guide in the first box: <a href="https://goo.gl/dD9uCo">https://goo.gl/dD9uCo</a></p>



## Apply

Choose from one of the options to show what you know about the ocean floor.

- 1) Create a PowerPoint with a title slide and a slide for each of the following concepts: waves, currents, tides. Each slide should have information about each concept and a picture.
- 2) Use Pixie to create a diagram of the above concepts. The picture should demonstrate what causes each to occur.



## Share

Share your completed project with 2-3 classmates for review. Explain how you created your project and what you learned about the concepts.



## Reflect

The basic motion of ocean water is caused by what 3 things?  
Ocean currents are caused by the ?  
A major ocean current that affects the United States is?  
Ocean water contains a large amount of what compound?  
As the depth of the ocean water increases do the following increase or decrease?  
-temperature  
-pressure  
-light









## Extend

Navigate to: <https://goo.gl/GGDeYY> . Read the definition of the Gulf Stream and where to find it. Based on the information, navigate to: <https://goo.gl/JjZQ2j> to see a live look at ocean currents. Can you identify the Gulf Stream?

Name: \_\_\_\_\_

# Science SOL 5.6c

	<b>Engage</b>	<input type="checkbox"/>
<p>Watch the video from Ted-Ed on Creatures in the Ocean's Deepest Depths</p> <p><a href="#">The otherworldly creatures in the ocean's deepest depths - Lidia Lins</a></p>		
	<b>Explore</b>	<input type="checkbox"/>
<p>Explore the ocean ecosystem and learn how different types of animals interact with each other.</p> <p><a href="#">Predators and Prey</a></p>		
	<b>Explore the Science Textbook</b>	<input type="checkbox"/>
<p>Science Fusion Volume 2</p> <ul style="list-style-type: none"><li>Unit 11 – Chapter 4 "What are Some Ocean Ecosystems?" page 519- 530</li></ul>		
	<b>Explain</b>	<input type="checkbox"/>
<p>This assignment is to help you understand the ocean's ecosystem better. There are many plants and animals that call the ocean home, and each one has an important place in the ecosystem. Read and find out more about it!</p>		
	<b>Apply/Share</b>	<input type="checkbox"/>
<p>After you have read and learned about the ocean's ecosystem. Share your learning by completing this <a href="#">record sheet</a>. Then, turn it into your teacher for feedback.</p>		
	<b>Extend</b>	<input type="checkbox"/>
<ul style="list-style-type: none"><li>Students will pick an animal, research it, and create a PowerPoint (or poster) about the animal.<ul style="list-style-type: none"><li>Where does it live?</li><li>Is it prey, predator, or both?</li><li>Create a food web with your animal</li></ul></li></ul>		

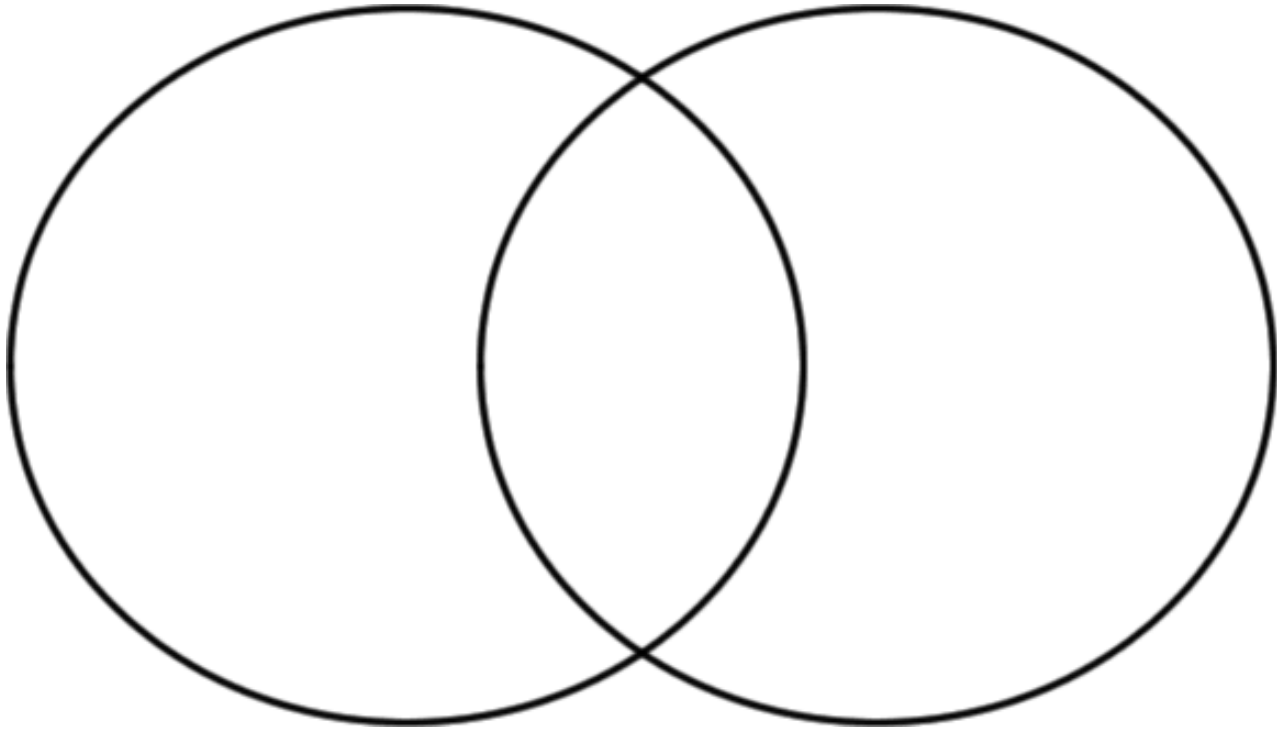
Name: \_\_\_\_\_ **Science SOL 5.6c**

What is an ecosystem? \_\_\_\_\_

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Compare and contrast your ecosystem and the ocean's ecosystem.



List some plants and animals that live in the ocean ecosystem.

Looking at your list? Which are predators? Which are prey? Why?

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Using your list and other animals from what you read, create an ocean food chain/web. Then write a paragraph about your food chain/web. Make sure to explain which animals are prey, which are predators, and which are both. *(Don't forget to include a main idea sentence at the start of your paragraph, and to use correct punctuation and capitalization.)*

Food Chain/Web

