

# Under the Sea: Oceans Stations Booklet

Name \_\_\_\_\_ Date \_\_\_\_\_ BLOCK 1 3 4 5

## Station 1: DEEP OCEAN EXPLORATION

1. In 3 sentences, explain why it is important for scientists to understand what the ocean floor looks like.

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2. How do scientists gather information about the characteristics of the oceans?

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3. Scientists are measuring 2 separate depths of the ocean using sonar. Point A takes 4 seconds to return to the ship. Point B takes 8 seconds to return. Knowing those two numbers, what could the scientists determine about the depth of the ocean in those two points? How do you know?

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## Station 2: Marine Life Forms

	Plankton	Nekton	Benthos
How they move			
Where they live			
Examples of this life form			

## Station 3: Ocean/Marine Food Webs

- From where does the algae plankton get its energy to make its food? Are algae plankton considered producers or consumers?

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- What do Silversides eat as their food source? List 3 organisms which eat the Silversides.

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- What would happen to the population of Arctic cod if the population of silversides greatly increased?

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- What does the Beluga whale depend on as its food sources?

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- Which 3 organisms depend ONLY on 1 primary source of food? What happens to the population of these 3 organisms if their source of food is wiped out?

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## STATION 4: OCEANS, OUR LIVING RESOURCE INFOGRAPHIC

1. According to the infograph, why are oceans important?

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2. One billion people in developing countries depend on fish for their primary source of protein. How can this protein from seafood, like fish, help an individual maintain good health?

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3. Our oceans are under severe stress from what?

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4. How many pieces of plastic are estimated to be afloat on every square mile of ocean?

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5. Currently, what is a major source of ocean pollution? How much more pollution is occurring compared to 1960?

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6. What are "Dead Zones"? How many exist and how many square miles do they cover?

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7. Only 2% of oceans are protected compared to 12% of terrestrial (land) areas under protection. What are 2 recommendations you can make, based on this infograph, to better preserve the ocean and its resources?

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# STATIONS 5 - 8 ZONES OF THE OCEAN

Zone	ESTUARY	INTERTIDAL	NERITIC	OPEN OCEAN	BENTHIC
ALSO KNOWN AS	N/A	Shore	Twilight	Photic and aphotic zones	Ocean floor Abyssal
LOCATION	Where rivers and oceans meet				
DEPTH	N/A				
ANIMALS FOUND here					
AMOUNT OF LIGHT	N/A			Slight light = photic; No light = aphotic	
TEMPERATURE	N/A				
AMOUNT OF PRESSURE	N/A				
OTHER INFORMATION					