## Earth's Ocean

### Date:

Earth's oceans are actually one big body of water, but they have been divided into five named oceans. Label the map to identify Earth's oceans.

(Note: You will write some names in more than one place.)

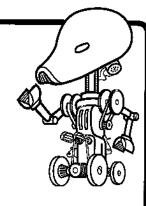
The Oceans: Indian Ocean

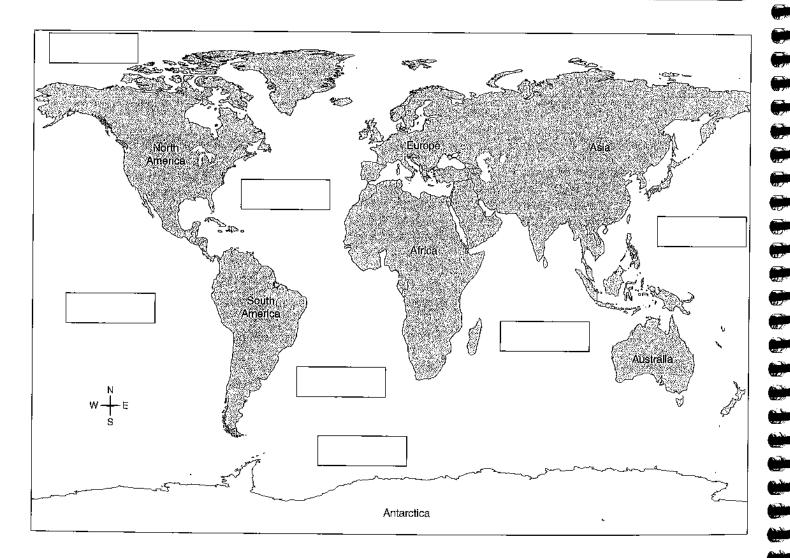
Arctic Ocean

Pacific Ocean

Southern Ocean

Atlantic Ocean

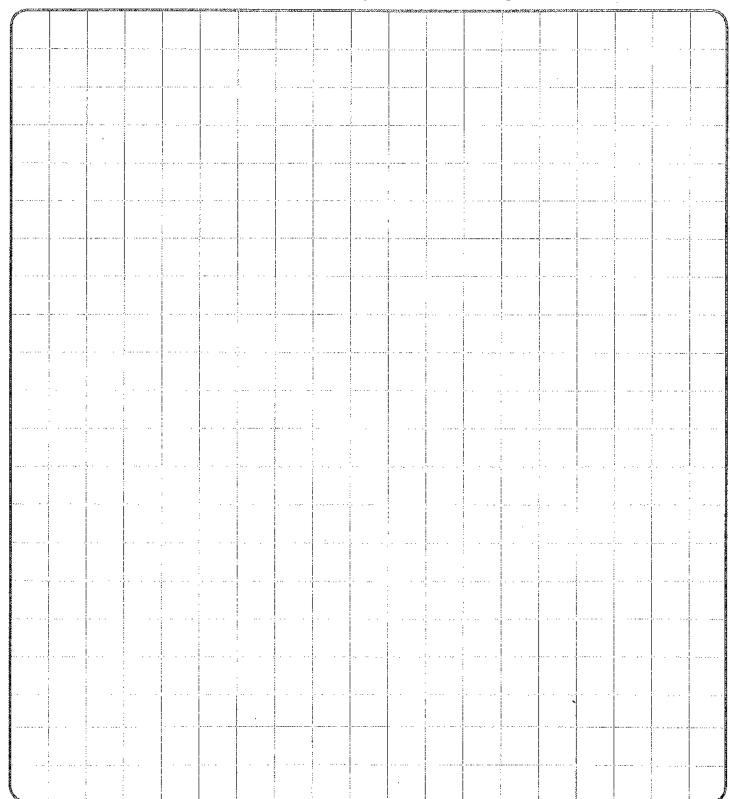




Date:				10
Team of Sci	entists:			
A)		В)		
Equipment:	1 plastic tank 1 gallon of water 1 cork	1 piece of cardboard, approximately 5 x 5 in		
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A. Predict				
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How can you u	se the materials provi	ded to make waves of differe	ent sizes?	
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### **B.** Experiment, Observe, and Record

- 1. Fill the tank about halfway with water. Use the materials to model how ocean waves form. Draw what you observe below.
- **2.** Experiment to see if you can make waves that are different heights. Measure the wave heights. Draw your observations and label your drawings with the wave heights.



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# Student Activity Sheet 6C Name\_\_\_\_\_

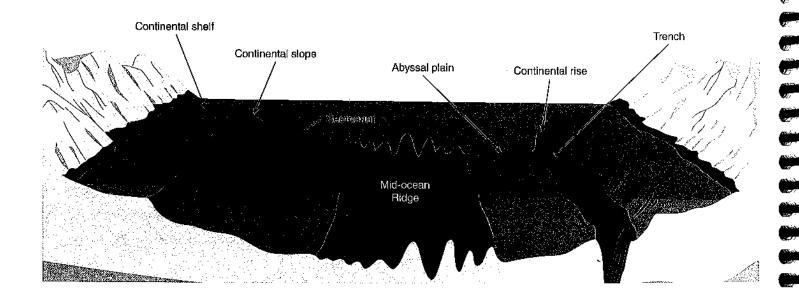
The Ocean Floor

Date: **Team of Scientists:** A) \_\_\_\_\_ B) \_\_\_\_ **Equipment:** 1 prepared shoebox 1 ruler, 30 cm Art supplies 1 unsharpened pencil 1 marker

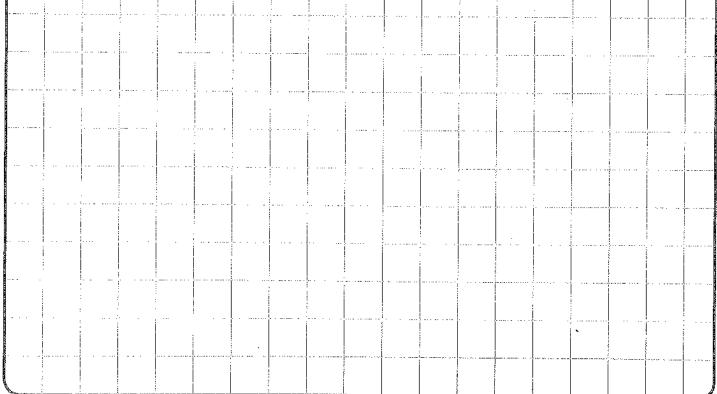
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Look at the diagram below. Decide which features of the ocean floor you will include in your model. List those features below. Your model should include a range of elevations.

Features to model:	***************************************
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C. Model, Observe, and Record  I. Use the materials provided to make a model of part of the ocean floor inside a sho sure your model represents a range of elevations.	
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	ebox. Make



**3.** Put the lid on the shoebox to cover your model. On the side of the box, write the names of your group members.

#### **D. Observe and Record**

- 1. Switch shoeboxes with another group. Do not remove the lid.
- 2. Start at one end of the box. Gently poke the pencil through the slots in the box until you touch the ocean floor. You want only to detect where the model floor is, not to change it. Measure and record data in the table below.
- 3. Repeat Step 2 across all the slots in the box lid until you have collected data across the full length of each row.

Front S	lot (1)	Middle \$	Siot (2)	Back S	lot (3)
Distance From Right Edge of Box (cm)	Depth Below Surface (cm)	Distance From Right Edge of Box (cm)	Depth Below Surface (cm)	Distance From Right Edge of Box (cm)	Depth Below Surface (cm)
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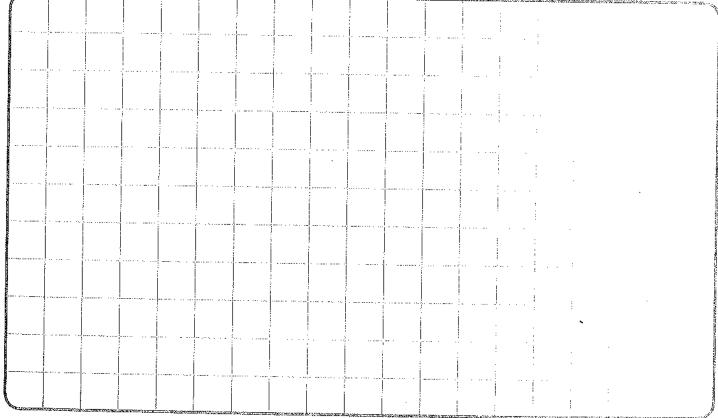
## E. Graph and Interpret

1. Use your data to make three graphs. The graph lines should show the shape of the ocean floor in the slots 1, 2, and 3 of the box. Remember to label the axes and give your graphs titles.

Title:

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(F.	Conclude
1.	In your model, what do the clay and the box lid represent?
2.	Compare your inferences about the other group's model with what you observed inside the box. Explain any differences.
3.	How do you think early investigators gathered data about the shape of the ocean floor? Explain why they would or would not have been able to produce accurate maps.
4.	How could you improve your method for graphing another group's ocean floor model? Describe what you could change to collect more detailed data about the features of the model ocean floor
5.	Write a question you have about the ocean floor.

<b>Student Activi</b> Ocean Life	ty Sheet 6D Name
Date:	
Team of Scientist	
A)	
	B)D)
Equipment: 1 mark	er 1 sheet of chart paper Research materials
A. Plan	
Circle the zone that yo	r group was assigned:
	Neritic Zone Open-Ocean Zone
Your research tasks ar	
<ul> <li>the physical charant</li> <li>and water pressu</li> </ul>	cteristics of your ocean zone (such as location, depth, sunlight, temperat
<ul> <li>some of the organ</li> </ul>	sms that live in your ocean zone
Decide how you will div	de these tasks among the members of your group. Write your ideas here

B. Predict	)
What do you think you will learn in this investigation?	
think	
pecause	
C. Research and Record	)
Research your ocean zone to complete your task. Write v	what you learn below.
am researching	
learned that	
lent Activity Sheet 6C: Teacher's Version	© Carolina Biological Supply Company

O.	Communicate and Record
1.	Share what you learned with your group. Listen carefully to the other members of your group. Write what you learn from them below.
<del></del>	

2. As a group, use what everyone has learned to complete your zone chart.

F. Ask Questions and Record	
_is	sten actively to the other groups' presentations. Ask questions and take notes below or in your ience notebook. Learn as much as you can about the other ocean zones.
_	
_	Conclude
•	Contrast the physical characteristics of the three ocean zones.
)   <b>3</b>	dentify two organisms from each of the three ocean zones.
• '	Write two questions you have about ocean zones or organisms.
	<del>-</del>

E. Communicate