Name:	Date:
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## **Investigating Deep Ocean Currents**

### Part 1: Deep Ocean Currents Model

In the diagram below, draw and label your observations of the deep ocean currents model.



what are your ideas for why the two types of water moved differently?				
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Name:	Date:
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### **Investigating Deep Ocean Currents (continued)**

#### Part 2: Layering Liquids

**Goal:** Use the four liquids to make as many distinct layers as possible.

Plan each test and explain your reasoning for the plan in the table below. Color the prediction diagram to show what you think the layers will look like. Complete the test and record your results. Use what you learned from the previous test when you plan the next test.

#### Color Key:

Red = Hot-Salty Blue = Cold-Salty Yellow = Hot-Fresh Green = Cold-Fresh

Test 1:	Prediction	Result
Which liquids will you add and in what order will you add them?		
Reasoning:		
Test 2:	Prediction	Result
Which liquids will you add and in what order will you add them?		
Reasoning:		

Name:	Date:
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# **Investigating Deep Ocean Currents (continued)**

Test 3:	Prediction	Result
Which liquids will you add and in what order will you add them?		
Reasoning:		
Test 4:	Prediction	Result
Which liquids will you add and in what order will you add them?		
Reasoning:		
Test 5:	Prediction	Result
Which liquids will you add and in what order will you add them?		
Reasoning:		

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

## **Investigating Deep Ocean Currents (continued)**

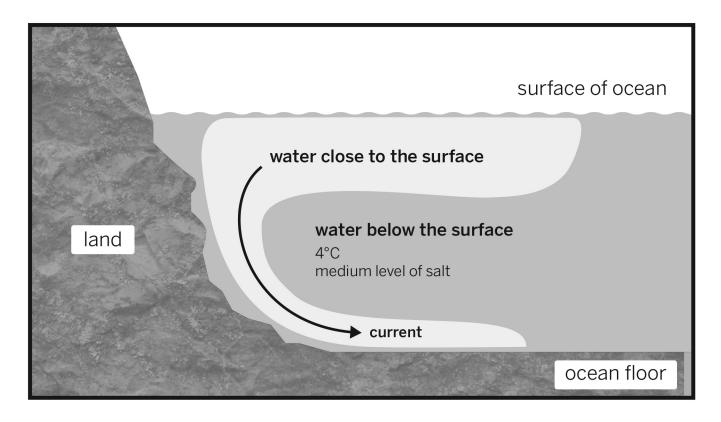
Test 6:	Prediction	Result
Which liquids will you add and in what order will you add them?		
Reasoning:		
	Prediction	Result
Test 7: Which liquids will you add and in what order will you add them?	Prediction	Result
Reasoning:		

#### Color Key:

Red = Hot-Salty Blue = Cold-Salty Yellow = Hot-Fresh Green = Cold-Fresh

Name:	Date:
Investigating Deep	p Ocean Currents (continued)
Part 3: Identifying Deep Ocean Current	ts
1. Why do you think the purple water and the in the ways they did?	e orange water in the deep ocean currents model moved
close to the surface is sinking through the w ocean. Scientists have identified the water b	o ocean current. The scientists have found that the water rater below it, forming a current close to the bottom of the below the surface as having a medium level of salt and a could be the identity of the water close to the surface (the
☐ water 2°C with high level of salt	
☐ water 20°C with no salt (freshwater)	
Explain your choice on the following page.	

## **Investigating Deep Ocean Currents (continued)**



Explain your choice.			