

Name:

Date:

Density observations

Table 1

	List substances in order of lowest to highest density	Does this vial float (F) or sink (S) in water?
Lowest density	1.	
	2.	
	3.	
Highest density	4.	

Think of two examples of substances with different densities

High density example:_____

Low density example:_____

Table 2

Substance	Predict if it will float (F) or sink (S) in fresh water	Observe and record whether the vial floats (F) or sinks (S) in fresh water
Salty water		
Fresh water		

Does seawater have higher or lower density than fresh water?_____

Write down your unknown number:_____

Is your unknown fresh water or salty water?_____

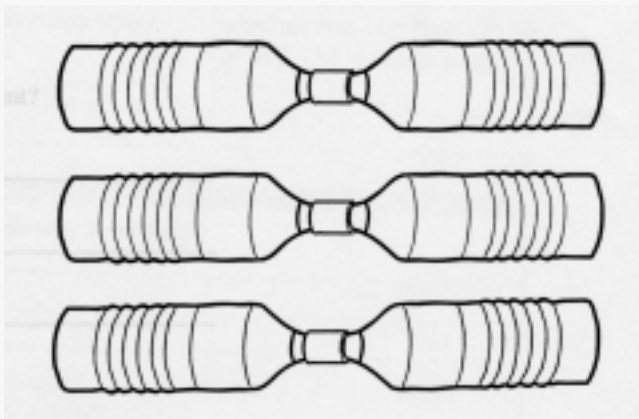
How do you know?_____

SALINITY CURRENTS

Use color pencils to illustrate the salty and fresh water in the pictures below.

Color of fresh water: _____ Color of salty water: _____

This is how the bottles look
at the beginning of the
experiment:



This is how I predict the bottles
will look at the end of the
experiment:

This is how the bottles look at
the end of the experiment:

Which layer is on top at the end? _____

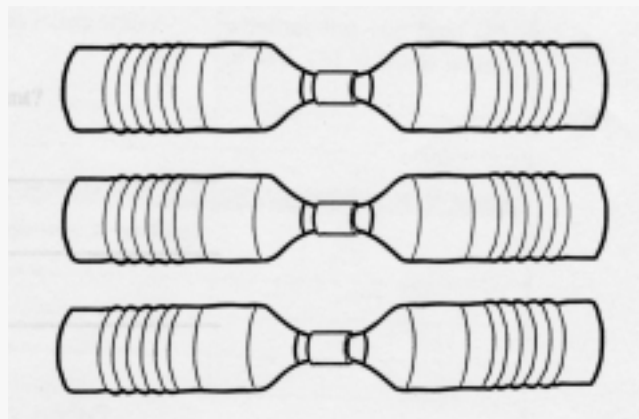
Why? _____

TEMPERATURE CURRENTS

Use color pencils to illustrate the cold and hot water in the pictures below.

Color of cold water: _____ Color of hot water: _____

This is how the bottles look
at the beginning of the
experiment:



This is how I predict the bottles
will look at the end of the
experiment:

This is how the bottles look at
the end of the experiment:

Which layer is on top at the end? _____

Why? _____

STUDENT'S ASSESSMENT SHEET

NAME _____

DATE _____

1. Name some things that cause ocean waters to move.

1. _____

2. _____

3. _____

2. Name some things that cause changes in the salinity of seawater.

1. _____

2. _____

3. _____

3. For each pair, circle the one which is denser.

1. Salty water or fresh water

2. Cold water or hot water

4. Why do we care about understanding ocean currents?

1. _____

2. _____

3. _____

5. What have you learned about ocean saltiness that you didn't know before?