

Dear Teacher

To enhance the educational experience, two suggested take home activities have been added to the **Floating & Sinking Kit**. Consideration needs to be given to:

- Students' prior knowledge (i.e. graphing, classifying,, predicting, and the ability to understand basic scientific concepts such as ocean movements.)

Water bottles should be collected prior to the day of the activity. (You may have to provide a few drops of blue food coloring for children who may not have materials at home.)

Have the students copy the following questions in their journals before sending the activity home.

Questions:

1. What happened to the water when you added the food coloring>
2. What happened when you added the oil?
3. Do the liquids mix? Explain.
4. How does it look like an ocean?
5. Draw and label your Ocean In A Bottle.

Fill in the return date on the family letters before sending them home.

Activity 1: Ocean in a Bottle

Objective:

- Students will simulate ocean movement

Product:

- Journal responses
- Ocean In A Bottle

Here is the second suggested take home activity.

- Brainstorm with the class about objects that float.
- Make a web or chart.
- Have the children copy the web into their journals. Also, ask students to draw some possible ideas for floaters.

Activity 2: Create A Floater

Objective:

- Students will design and make a floater that will hold at least 25 pennies (sinkers.)

Product:

- Journals response
- Model a floater (possible credit for June science exam)

Dear Parents,

In science class we are studying the characteristic and behaviors of liquids. We are providing the following activity to enhance your child's learning experience. We would like you to help your child with this activity.

Enclosed please find:

- An activity sheet with directions
- A journal response page

Please read and preform the enclosed activity with your child. The class will share their findings on _____ . Your child should return their journals at this time.

If you have any questions, please call or send a note. I hope you will enjoy working with your child.

Thank you

Ocean in a Bottle

➤ **Materials:**

- 1 clean, clear plastic bottle with cap, 1 liter or less
- Water
- Blue food coloring
- Oil, cooking, baby, or mineral

➤ **Directions:**

- Fill the bottle $\frac{3}{4}$ full with water
- Add blue food coloring
- Stop and answer question #1 in your journal
- Finish filling the bottle o the top with oil
- Stop and answer question #2 in your journal
- Put the cap on the bottle and close tightly
- Rock the bottle back and forth slowly
- Complete your journal page

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Enclosed please find:

- An activity sheet with directions
- A journal response page

Please read and perform the enclosed activity with your child. The class will share their findings on_____.

If you have any questions, please feel free to call or send a note with your. I hope you will enjoy working on this activity with your child.

Thank you

Create a Floater

➤ Objective:

The parent and child will design and make a floater that is no longer than 8 in. and no wider than 6 in. We have already made some floaters from foil and clay in school. Please be creative and use any other materials you might have at home. Your floater should be able to hold at least 25 pennies. Keep experimenting to find out how many pennies your floater will hold.

➤ Directions:

1. Think of at least 6 things in your home that will float. Write your answers in your journal.
2. Draw some possible ideas for floaters in your journal. Be creative.
3. Choose one that you will make
4. Gather the materials and make the floater of your choice
5. Test your floater in the kitchen sink or bathtub
6. Place 5 pennies on the floater at a time
7. Continue adding pennies in groups of 5 until it sinks
8. Record the number of pennies your floater held before it sank
9. In your journal draw a picture of your floater