

## Acquisition Lesson Plan

Name	Teacher/Planner	Subject	Transportation - through water	Date	
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**9:30** Supervisor checks in students and takes attendance. Puts names in "Random Drawing" bucket for prizes later in week.

**9:30 – 9:45** Breakfast Snack

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**Essential Question:** What are some different water transport vehicles? What is buoyancy?

**9:45 – 10:00** Activating Strategy/Arrival Activity:

- *Announce Subject:* Today we are going to be looking at transportation – through water!
- *"Space Odyssey" – Listen to a short music selection to help children settle down for learning:* Play "Come Sail Away" by Styx.

**10:00 – 11:00** Teaching Strategies:

1. *Brainstorm:* As a group, brainstorm as many different water transport 'vehicles' as you can. Talk about similar features and what purpose they serve (e.g. the pointed front/bow allows the vehicle to 'cut' through and displace the water with little resistance). Also contrast the features and discuss why some move through the water faster or why some can hold more weight aboard them, etc.
2. *Read:* Read Swap! By Steve Light. Explain that this is called bartering and have the kids keep track of what they keep and what they barter in the book.
3. *Read:* We will be focusing on transportation vehicles that float on top of water for our activity. Read (or summarize) "Buoyancy" by Robert Gardner, a Scholastic article.  
(Source:  
<http://teacher.scholastic.com/activities/explorations/squid/libraryarticle.asp?ItemID=200&SubjectID=126&categoryID=5>)
4. *Straw Boat Challenge:* Hand out a "Test Chart – Transportation through Water – Straw Boat Challenge" sheet to each child. Have the children group into pairs. For the "Straw Boat Challenge" the pairs of children will try to design and create a boat that can hold 15 pebbles without sinking, using ONLY 10 straws, three inches of duct tape and ten inches of plastic wrap! There will be only two 'water & pebble station' for the pairs of children to test their boats out in, so they will need to take turns, help and encourage one another.  
+ Point out to the children how the pebbles themselves sink, but on their 'straw boats' they float. Relate this back to the article "Buoyancy".

5. *"Moon Walk" – physical activity to get children moving during this segment:*  
Have the kids break into groups of 5-10 (can group by grade) and play "Row, Row, Sail" – a variation of "Duck, Duck, Goose".

**Formative Assessments:** (ongoing) Classroom helpers sit near children during reading aloud or partner reading to help them attend to story. Adults should monitor and help the kids follow with their "Straw Boat Challenge", as well as with following the direction and recording information on their "Test Chart". Adults should also monitor the "Row, Row, Sail" game.

**11:00 – Summarizing:** What are some water-travel vehicles we discussed? What is buoyancy? Discuss how different designs of the boats held more weight and which worked best.

**11:15 Bathroom break and hand washing**

Wash hands and enjoy lunch together. Teachers and adult leaders model appropriate table manners and encourage children to taste foods. Children and adults throw their own trash away.

**11:50 - After lunch, prior to dismissal:**

**Culminating Activity:** Invite children to choose a used book to take home and encourage them to do some reading tonight before they go to sleep.