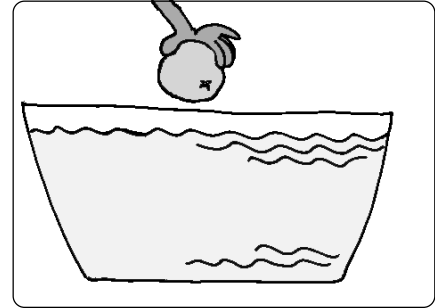


TEACHER DEMONSTRATION: FLOAT FRUIT

Prepare:

Show students an apple, orange, or other common piece of fruit.

Ask if the piece of fruit will float. Demonstrate to test the students' prediction.



Ask if the parts of the fruit will float. If an orange is peeled, will the peel, the seeds, and the fruit float?

Demonstrate to test the students' predictions.

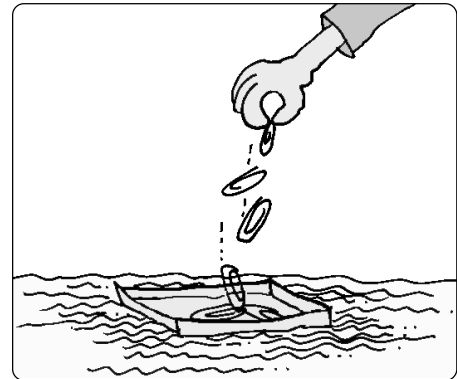
TEACHER DEMONSTRATION: FLOAT BOATS

Prepare:

Cut sheets of foil into six or eight inch squares.

Fill one container with water for each team.

Procedure:



Each team of students receives a square of foil, a container of water, and a box of paper clips. Their challenge is to create a boat that will hold the most paper clips when placed in a container of water.

Students record their plan for creating a boat, test the plan, and record results. If care is taken, the foil can be reshaped into a second boat.

Have extra foil ready when needed.

Option: Each team shares their plan for the boat that held the most paper clips.

Clean Up: Paper clips will rust if left wet from the experiment. The last team to use the paper clips should lay the paper clips on a paper towel to dry and leave the paper clip box near the paper towel.

Activity Variations:

What do the boats that hold the most paper clips have in common? Create a new boat to test the class' theory of what makes a boat that holds many paper clips.

Would a boat made from clay hold more or less paper clips? Predict, test, record results, and analyze results.

