

Grade 3

Week 2

THE ORANGE IN WATER

MATERIALS:

orange
deep bowl of water

PROCEDURE:

1. Fill the bowl with water.
2. Place the orange in the water to find out if it will sink or float.
3. Remove the peel and place the orange back in the water.
4. Break the orange into sections and place each section in the water.
5. Hold a piece of the orange peeling under water and squeeze it.

QUESTIONS:

1. Did the orange float or sink when it was placed in the water in procedure #2?
2. Did it float or sink after the peeling was removed?
3. Did the small wedges float?
4. What happened when you squeezed the peeling under the water?
5. Using the information observed in procedures 1-5, explain why the orange reacted the way it did.

WHY IT WORKS:

The heaviness of an object compared to its size is called its density. Orange peel is full of trapped air bubbles which makes the orange light for its size. It's kind of like you wearing a life jacket! The air in the life jacket keeps you floating while you are playing in the water.