

## YOUR MISSION!

Re-create Archimedes' Principle by using simple method. Students will learn the story and history of how Archimedes came to understand and create the Buoyancy test.

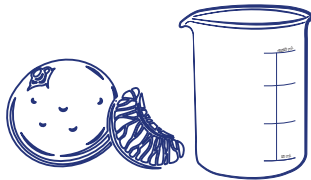
### Materials

- 1 glass or beaker
- 1 clementine
- water
- paper towels



Ensign

1. Read the history and background science information for this activity. Organize your work station to start step one of the buoyancy test.



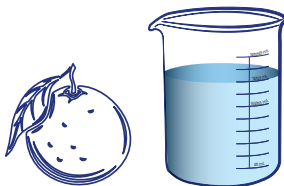
Lieutenant  
Commander

4. Make an observation. If you peel the clementine, will the fruit float or sink? Discuss with your class. Peel your clementine.



Lieutenant  
Junior Grade

2. Take one Clementine with the skin still attached. Pour water about halfway into your glass or beaker.



Commander

5. Once the peel is removed. Add the unpeeled clementine to your beaker filled with water. Was your observation correct? What was the result? Record your findings and discuss with the class.



Lieutenant

3. Add the Clementine to your beaker filled with water. Record your observations and discuss with the class.

