

YOUR MISSION!

Re-create Archimedes' Principle by using this simple method.

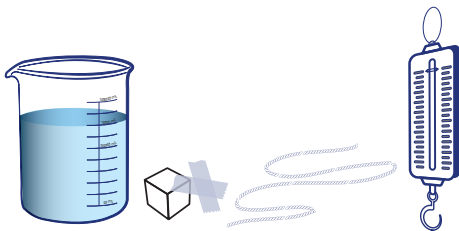
Materials

- 1 spring scale (min 200g)
- set of density cubes (6) - 1 cubic inch each
- string
- tape
- water
- 500 ml beaker



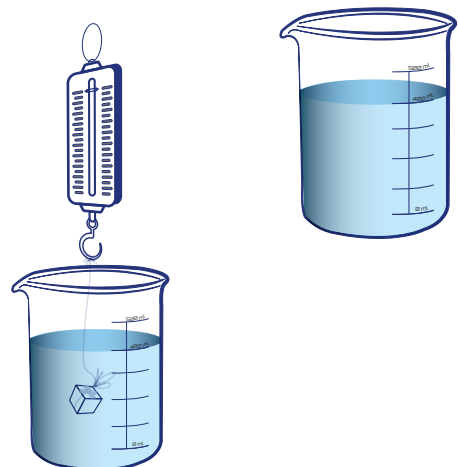
Ensign

1. Separate into 6 groups, one for each cube. Once in your group, gather your materials.



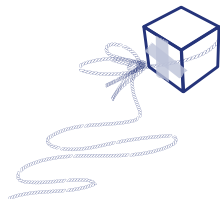
Lieutenant
Commander

4. Fill your beaker with 400 ml of water. Take the cube attached to the spring scale and dip the cube into the water. Do not touch the sides or bottom of the beaker. Share and record the weight.



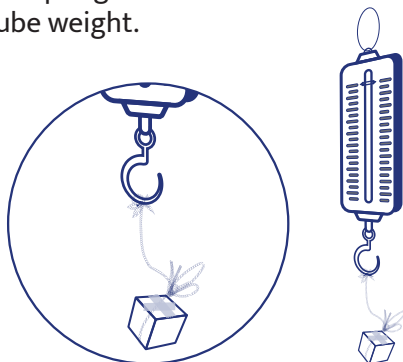
Lieutenant
Junior Grade

2. Tie the string around your cube. Use the tape to secure.



Lieutenant

3. Take the other end of the string and tie it to the Spring Scale. Share and record your cube weight.



Commander

5. Compare the weight of the cube outside of the water, and submersed in the water. Record the difference. Share your findings with the class, What were the other groups results? Is it the same? Is it different? What is the buoyancy?