

Name: _____

Period: _____

HW2:6 Archimedes' Principle
Mr. Murray, IPC
science.fearthepenguin.net

Assigned: Thurs., 9/21 and Fri., 9/22
Due: Mon., 9/25 and Tues., 9/26

1. When an object is put in water does the object seem lighter or heavier?
 2. The upward force of a liquid on an object in the liquid is called:
 3. Which is denser: water or corn syrup?
 4. Which will give more buoyant force: water or corn syrup?
 5. Why does a ship float?
 6. A 100 gram object is put into a liquid. In the liquid it feels like 75 grams. How much buoyancy is given by the liquid?
 7. A piece of clay doesn't float. How could you make it float?
 8. A 50 g object displaces 60 g of water. Sinks or floats?
 9. A 35 g object displaces 33 g of water. Sinks or floats?
 10. A 120 g object displaces 130 g of water. Sinks or floats?
-

Acid, Base, or Neutral?

11. A 200 g boat displaces 300 g of water. How much cargo can it carry before it sinks?

From the Lab
12. How did you get the pennies in the balloon to float?
13. When the pennies and balloon floated did the balloon displace more or less water than when it sank?
14. ____ A compound that makes OH^- ions in water.
15. ____ A solution has an equal amount of H^+ and OH^- ions.
16. ____ A solution has a pH of 3.2.
17. ____ A solution has a pH of 7.0.
18. ____ A solution has a pH of 9.5.
19. ____ A compound that makes H^+ ions in water.
20. ____ A solution has a pH of 11.2. What do you add to get a pH of 9?

Name: _____

Period: _____