


1) Highlight (again) as you read the information on the Calendar. $\rightarrow \searrow$ 2) Write the Formula for finding Density in words and as a math formula:

Density =
D =


Archimedes Principle: the buoyant force on a submerged object is equal to the weight of the fluid (water) that is displaced by the object. Buoyancy is the ability of an object to float in water or air. By adding air to objects, we get more buoyant force.

Archimedes' Principle explains why steel ships float when solid steel spheres do not float. Because of all the air in the hull, the overall density is less than that of water, therefore, it floats- the buoyant force equals the weight as the ship floats on the surface of the ocean.
ball: displaced water weighs less than ball hull: displaced water weight $=$ hull weight





Design, using dry calculations, a barge that uses air to reduce overall density, will be buoyant (float) in water and will carry第cargo across Lake Plastic. ....

