which cannot be done if into the battery cell. omes from a flask when t rrange as in Fig. 22. T experiment.

IQUIDS AND GASES.

sured with a graduate.

so as to make it reasonab

es experienced in fitting

placed the tube in position reforated stopper into a porous battery cell to show the he jet, Fig. 22. The instantification of gases. It is best to have a rubber stopper for opcock in the funnel. The is purpose, but if one cannot be obtained an ordinary cork be regulated when burningly be made air-tight with plastic sealing wax, and fitted

as is being generated. If ... THE SOLUBILITY OF AIR AND AMMONIA GAS IN WATER. Torence flask is used to go Ammonia Gas is Soluble in Water .- When working with rate the gas, have in the arge class, the simplest method of illustrating this is to topper a funnel with a storace some aqua ammonia in a test tube and over it place ock. When the gas just inverted empty test-tube. Heat the liquid until the eases to come off pour water pty to be is full of gas. Remove it, and drop it mouth nto the funnel and ignim-wnwards into a bottle of water. Have each student do

as may then be regulated Air is Soluble in Water.—In class work one of the best es the trouble of filling without is to half fill an evaporating dish or mortar with s ceased to rise in the cylinater and into it place an inverted test-tube full of water in er under the jar and turnich no air is visible. Let the test-tube project over the of the cylinder and the of the dish. Gently heat the test-tube above the edge of dish until the water is converted into steam and descends the test-tube. Now take away the lamp and allow the ter to rise. Repeat two or three times and allow the s through a membrane (enter to cool. A bubble of air will be found at the top of

tie a piece of parchment test-tube.

a funnel or thistle tub Surface Tension.—To cause a drop of oil to float in a mixy tying on the membrage of alcohol and water, half fill a test-tube with water, e. Then take a piece of put into it one or two drops of oil. Now pour in a little ng water until it become shol. The drop of oil floats out into the mixture of the ove it from the water are ne density as itself where its form may be studied. at the point desired, the ometimes used as an illustration of surface tension.