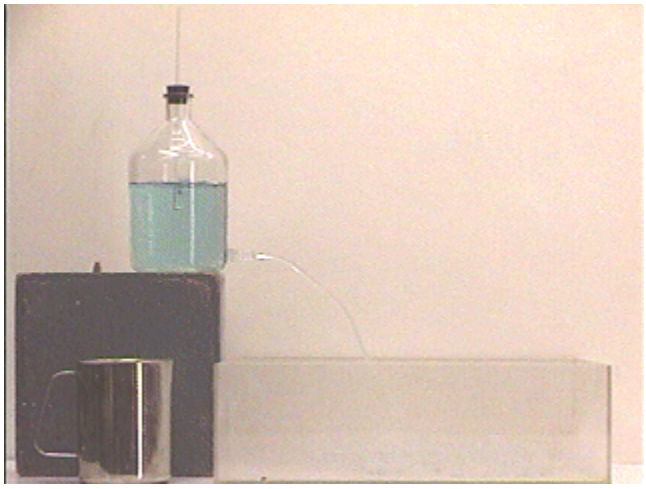
Question #79

You have now seen that the range of the water jet produced using the aspirator bottle does not change as the water level drops from near the top of the bottle to the level of the bottom of the capillary tube (refer to Question #78). For the question this week we will position the capillary tube so that its lower end is *below* the level of the nipple out of which the water squirts.



The question involves what will happen when the cork is removed from the nipple so that the water can flow out of the bottle. In particular, how far will the water squirt? (Refer to the previous answer to see the locations of the position identification numbers.)

When the cork is removed with the end of the capillary tube *below* the level of the nipple, the water range will extend to:

- (a) point 1 (below end of nipple).
- (b) point 2 (out half way).
- (c) point 3 (out a distance equal to the height of the nipple above the top of the container).

As time goes by the range of the water jet will:

- (a) increase.
- (b) decrease.
- (c) remain the same.

Click here for Answer #79 after August 27, 2001.

Question of the Week

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For questions and comments regarding the *Question of the Week* contact Dr. Richard E. Berg by e-mail or using phone number or regular mail address given on the Lecture-Demonstration Home Page.