

# Baking Powder Submarine<sup>1</sup>

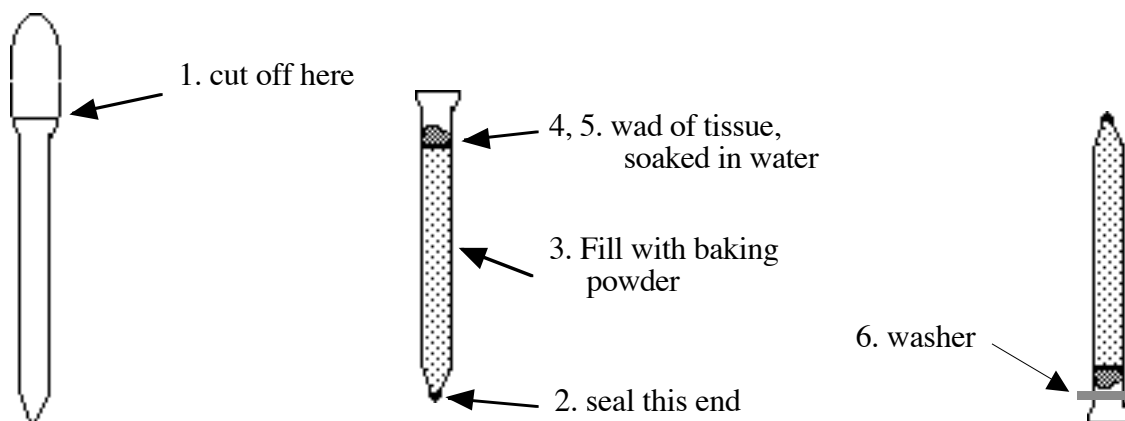


## Materials

large beral pipet  
baking powder  
tissue paper  
3/8" slit lock washer  
tank (2L bottle)

## Procedure

1. Cut off most of pipet bulb, leaving a funnel shape.
2. Seal tip of pipet by heating in flame.
3. Fill pipet with baking powder. Leave about 1 cm space empty.
4. Tear off small wad of tissue and soak in water.
5. Ball wad of tissue and place in pipet. Tamp down slightly to hold in baking powder.
6. Slide washer over pipet.
7. Fill pipet with water. This gets the reaction started even though some of the water will fall out when the sub is placed in the tank.
8. Place submarine in water tank and observe. It takes a minute or so for the sub to start to rise and sink.



[http://purcell.phy.nau.edu/courses/00/spring/sci420/misc/students/polsgrove\\_peter/submarine.htm](http://purcell.phy.nau.edu/courses/00/spring/sci420/misc/students/polsgrove_peter/submarine.htm)

<sup>1</sup> Adapted from Derr, Henry R. "Gas Me Up, or, A Baking Powder Diver" February 2000, Vol. 77 No. 2, p. 171