

**REGENTS OPTION
TAKE-HOME EXPERIMENT
INSTRUCTIONS**

a) You have each been given a plastic cup in order to perform the following experiment at home.

- 1) Fill your bathroom sink to just below the drainage hole.
- 2) Holding the cup gently as close as possible to the bottom invert it so that the open end faces the water (see diagram below).
- 3) Push the cup slowly down into the water as far as it will go noting the effect as you push it down. Repeat as often as you wish.
- 4) Remove the cup from the water and punch a small hole (the size of a pencil point) in the bottom of the cup. Repeat step '3' above.
- 5) Enlarge the hole (bigger than the point but not as big as the width of the pencil) and repeat step '3'.
- 6) Enlarge the hole to the width of the pencil and repeat step '3'.

