

Siphoning

ONE WAY OF GETTING WATER OUT OF A BIG TANK (LIKE AN AQUARIUM) IS TO PUT ONE END OF A PIECE OF TUBING INTO THE TANK, AND SUCK HARP ON THE OTHER END.

THIS IS CALLED **SIPHONING.** IT GETS WATER OUT OF THE TANK, AND (USUALLY) INTO YOUR MOUTH.

ONE WAY TO AVOID CETTING A MOUTHFUL OF WATER IS TO USE A SIPHON BOTTLE.

THIS IS WHAT YOU NEED TO MAKE ONE:

- 1 JAR (A 1-QUART MAYONNAISE JAR WORKS WELL)
- 6 FEET OF 14" PLASTIC TUBING
- 1 SOLID PUBBER BALL WHICH FITS SNUGLY INTO THE MOUTH OF THE JAR
- 1 BIC PEN WITH THE INSIDES TAKEN OUT.

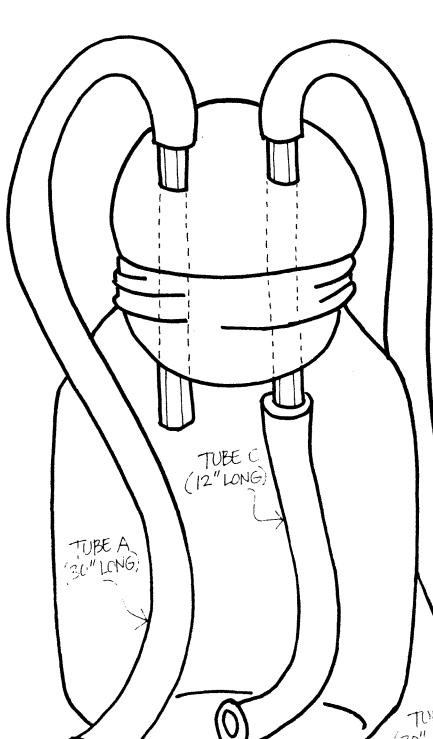
FIRST, CUT THE BIC PEN BARREL IN HALF WITH A HACKSAW, AND SANDPAPER ALL ROUGH EDGES (SO THE TUBING WILL FIT TIGHTLY).

SECOND, PUSH BOTH PIECES OF BIC PEN PIGHT THROUGH THE RUBBER BALL

THIRD, CUT THE TUBING AS SHOWN AND ATTACH TO THE PEN PIECES. NOW FIT THE BALL INTO THE MOUTH OF THE JAR.

NOW TRY SIPHONING WATER
INTO THE BOTTLE BLAND AND
SUCK THROUGH EACH TO BE
TO FIND OUT WHICH
WAY THE SIPHON BOTTLE
WORKS BEST.

TUBE B (30" LONG) Z



Measuring Air Pressure

PUT SOME COLORED WATER IN THE BOTTLE AND HOLD TUBE B STRAIGHT UP NEXT TO A YARDSTICK.

NOW BLOW HARD INTO TUBE A. HOW HIGH CAN YOU MAKE THE WATER RISE?

YOU CAN MEASURE THE AIR PRESSURE IN A **BALLOON** OR A **VOLLEYBALL** BY ATTACHING EITHER ONE TO TUBE A. (YOU WILL NEED AN **INFLATER PIN** TO ATTACH THE VOLLEYBALL)

Measuring Temperature

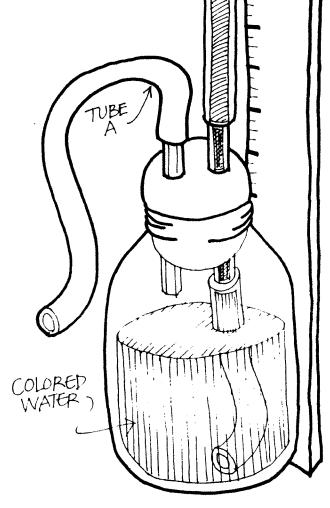
PUT SOME COLOPED WATER
IN THE BOTTLE, HOLD TUBE B
STRAIGHT UP NEXT TO A YARDSTICK,
AND **SEAL OFF TUBE A** BY
PINCHING OR STOPPING IT UP.

PUT THE BOTTLE IN A BUCKET OF HOT WATER. WHAT HAPPENS TO THE COLORED WATER IN THE BOTTLE?

TRY PUTTING THE BOTTLE IN A BICKET OF ICE WATER, OR FIRM TEMPERATURE WATER.

OF COLORED WATER

IN THE BOTTLE.



TUBE

