Arvind Gupta
Toys from Trash
www.arvindguptatoys.com/toys.html

- Step-by-Step Photo Guide
- Detailed Worksheet
PLASTIC STRAW

TIGHT FIT RUBBER STOPPER
ATTACH NUT WITH GLUE

ADJUST SO THAT STRAW JUST FLOATS IN WATER. THEN PUT THIS STRAW IN BOTTLE.

THE LENGTH OF STRAW WILL DEPEND ON WEIGHT OF NUT.
FLOATING STRAW READY TO DIVE!

SQUEEZE BOTTLE TO MAKE STRAW DIVE!

RELEASE PRESSURE TO GET THE STRAW UP!
JOIN TWO BOTTLE CAPS WITH ADHESIVE. MAKE A BIG HOLE.

HERE TWO BOTTLES ARE JOINED BACK-TO-BACK.

SQUEEZING BOTH BOTTLES WILL MAKE STRAW DEEP DIVE !!
DEEP DIVER

YOU NEED

- 2 liter Bottles
- Plastic Dropper
- Cycle Nut
- Rubber Band
- Cello tape
- Scissors

Step-by-Step Photo Guide

1. Place a cycle nut in a plastic dropper and tie it with a rubber band. Fill enough water in the dropper so that it just floats flush with the water level. The dropper will be critically balanced. It will neither pop out of water nor sink.

2. Place this “critically balanced” dropper in a 2-liter water bottle. Screw the lid tightly. On pressing the bottle a little water will enter the dropper making it slightly heavy. The dropper will dive to the bottom.

3. Make big holes in two bottle lids. Place them back-to-back and tape them to make a double lid...

4. Assemble two bottles with water and the “critically balanced” dropper. On pressing the bottle the dropper will deep dive through the lids to reach the bottom. On releasing the pressure it will magically come up.