Howtoons: Das Bottle

Materials:
- 2 plastic water bottles
- Needle nose pliers
- Scissors
- 2 paper clips
- Chopsticks
- 6-inch ruler
- 3 rubber bands
- Propeller

Experiment with different sizes and submersions.

Drill a hole in the bottom of your bottle using chopsticks feed a paperclip thru.

Use chopsticks to hook rubber band.

Connect stabilizer fins with two rubber bands.

Hook paperclip into second hole.

Buoyancy:
- With more or mostly air inside, the sub has positive buoyancy and will rise under water or float on top.
- With just enough air inside, the sub has neutral buoyancy and will stay level under water.
- With little or no air inside, the sub has negative buoyancy and will sink under water.

Making the propeller:
- Crush, then cut a bottle in half.
- Trim around the bottom.
- Cut thru the middle of each high and low point.
- Straighten paper clip and feed through bottle cap then thru propeller center hole. Bend a hook into second hole.

Without fins, prop and bottle both spin in opposite directions.

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With stabilizing fins, prop spins, bottle moves forward.

I wonder what's out there?
Yeah.

Nothing hungry! Hope.

Ze' End!

Joost, Saul, and Nick! Howtoons.com