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BOYAROX

EXPERIMENT WITH DIFFERENT SIZE SUBS

DRILL A HOLE IN THE BOTTOM OF YOUR BOTTLE. USING CHOPSTICKS FEED A PAPERCLIP THRU.

HOOK PAPERCLIP INTO SECOND HOLE.

USE CHOPSTICKS TO HOOK RUBBER BAND.

CONNECT STABILIZER FINS WITH TWO RUBBER BANDS.

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.

WITHOUT FINS, PROP AND BOTTLE BOTH SPIN IN OPPOSITE DIRECTIONS.

WITH STABILIZING FINS, PROP SPINS, BOTTLE MOVES FORWARD.

DRILL HOLE IN BOTTLE CAP.

STRAIGHTEN PAPER CLIP, AND FEED THROUGH BOTTLE CAP THEN THRU PROPELLER CENTER HOLE BEING A HOOK INTO SECOND HOLE.

USE A SPACER BETWEEN THE PROP AND THE CAP. PLASTIC THREADED BEADS FROM A BRACELET WOULD GREAT.

CRUSH, THEN CUT A BOTTLE IN HALF.

TRIM AROUND THE BOTTOM.

CUT THRU THE MIDDLE OF EACH HIGH AND LOW POINT.

MAKING THE PROPELLER.

I WONDER WHAT'S OUT THERE?

ZE! END!

NOTHING HUNGRY! HOPE.

HOWTOONS.COM

MATERIALS:
2 ELASTIC WATER BOTTLES
2 DARNING NEEDLES
3 ELASTIC BANDS
6 INCH RULER
CHOPSTICKS
SCISSORS
2 DARNING CLIPS
Lip Gloss
PAPERCLIP
RUBBER BANDS
PROP
BOTTLE CAP
PAPERCLIP
RUBBER BANDS
STABILIZER FINS
RUBBER BANDS

Materials: soda bottles, rubber bands, paper clips, plastic ruler, bracelet beads

Category: Engineering