Heather Welladsen

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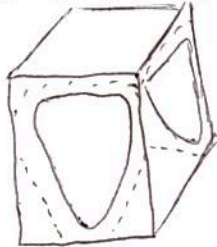# HOW TO MAKE A BLACK FISH FLOAT

## Materials

* I piece of dowel approx. 30cm long
* I cube of foam    * pliers
* copper wire        * white waterproof tape
* lead foil          * bucket of water
* binding cotton
* binding fluid
* spray paint (bright colour)
* clear marine laquer          ✓    3
* saw, sandpaper, file
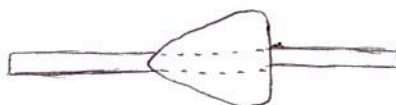* nail with large diameter

## Procedure

① Draw a tear drop shape on all four sides
of the cube of foam. This will be your float.

② Cut out roughly the shape

③ Use the sandpaper and file to get the
shape you want your float to be. Make
sure it is round.

④ Push the float onto the dowel, making
sure it is in the middle.

Very well done.          ⑮

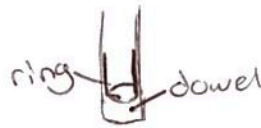⑤ bend a 5cm length of copper wire around the nail to make a ring

⑥ Use a pair of pliers to bend the end pieces of wire at a right angle to the loop.
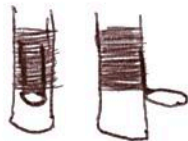
⑦ Repeat steps 5 & 6 so you have two rings the same size.

⑧ Place one of the rings onto the bottom of the dowel.

ring  dowel

⑨ Bind it in place by wrapping the binding cotton around and around the dowel so there are no gaps. keep wrapping until the entire copper wire at the ends of the loop are covered.

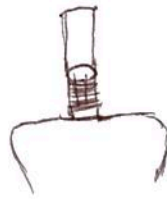⑩ Coat the binding with 10 coats of binding fluid or until it is smooth.

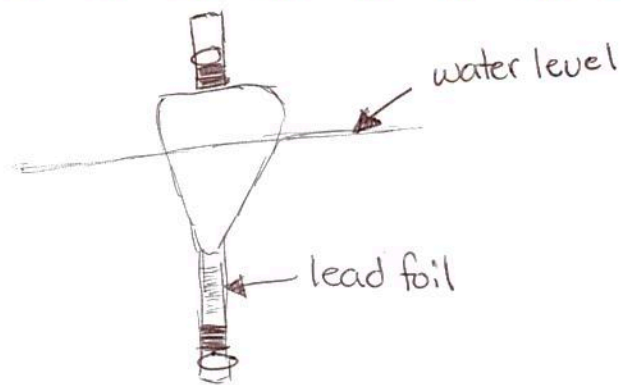(11) Position the float so it is a little more than half way up the dowel.



(12) Repeat steps 8-10 but position the second ring just above the float.



(13) Wrap lead foil around the bottom of the dowel, just above the binding.

(14) Test your float in the bucket of water to see how it floats. If it sinks take off some lead foil. If it doesn't float so the water level is about 5cm down the foam, put more foil on. If it doesn't float vertically, round the foam so it is even all the way around the dowel.

water level

lead foil

(15) Once your float floats correctly, wrap copper wire tightly around the lead foil to hold it in place
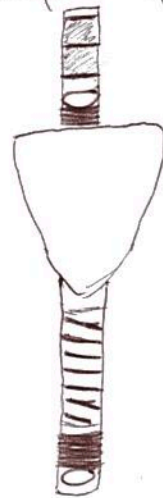
copperwire
foil

(16) Paint stripes around the top of your float by covering the parts you don't want painted with tape. Spray the entire area then peel the tape off when the paint is dry.

(17) to make your float more visible, you can add strips of white waterproof tape up the top of your float.

(18) laquer the entire float.

(19) Go fishing!

P.T.O for final product

spray paint

waterproof tape

binding

ring

water level

float

dowel

copper wire

lead foil

binding

ring