

Question

Can the bees save the seas?
materials that absorb oil

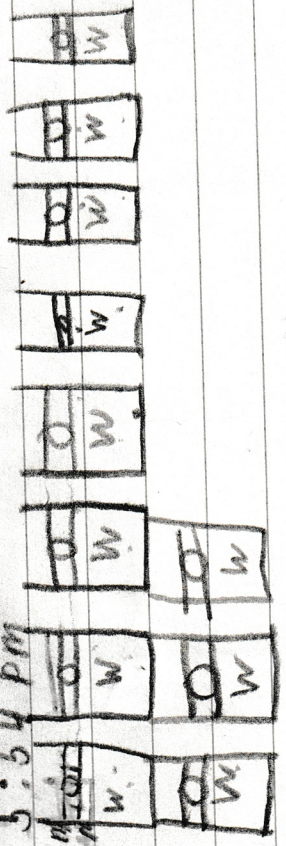
- Cotton Wool 40g
- Coconut husk 40g
- peat moss 40g
- bees wax 40g
- hair 40g
- flour



- Hydrophobic - repels water
- Hydrophilic - likes water / absorbs water
- Lipophilic - likes oil / absorbs oil

5:54 PM

20g
6g



11.50g

88
88
88

I see great things ahead

| Material | cm of water at start | cm of oil at start | cm of water at end |
|-------------------|----------------------|--------------------|--------------------|
| (1) Cotton wool | 6 cm | 2 cm | 4 cm |
| (2) Cotton wool | 6 cm | 2 cm | 4 cm |
| (3) Bees wax | 6 cm | 2 cm | 5.5 cm |
| (4) Peat mass | 6 cm | 2 cm | 6 cm |
| (5) Coconut husk | 6 cm | 2 cm | 4 cm |
| (6) Coconut husk | 6 cm | 2 cm | 5 cm |
| (7) hair bees wax | 6 cm | 2 cm | 6 cm |
| (8) hair bees wax | 6 cm | 2 cm | 5.5 |

| | | | | | | | | |
|------------------|------|--------|------|--------|------|--------|--------|------|
| cm of oil at end | 1 cm | 1.5 cm | 1 cm | 1.5 cm | 1 cm | 1.5 cm | 1.5 cm | 2 cm |
|------------------|------|--------|------|--------|------|--------|--------|------|

| | |
|--------------------|------------------|
| cm of water at end | cm of oil at end |
| 2 cm | |
| 2 cm | |
| NA | |
| NA | |

| | | |
|----------------------|--------------------|------|
| cm of water at start | cm of oil at start | W |
| 6 cm | 2 cm | 6 cm |
| 6 cm | 2 cm | 6 cm |
| 6 cm | 2 cm | NA |
| 6 cm | 2 cm | NA |

(9) bees wax

(10) bees wax
w bees wax

(11) flour

(12) flour
w bees
wax



Amount of water at end
cm

Any oil
in the water

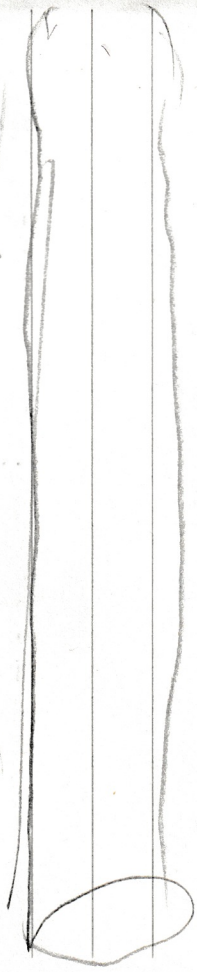
2.00
1.75
3.75
3.5
3.75
3.75
3.25
3.00
4.00
4.00
4.00
4.00
3.00
3.50

drops of oil
layer of oil
layer of oil
layer of oil

(11)

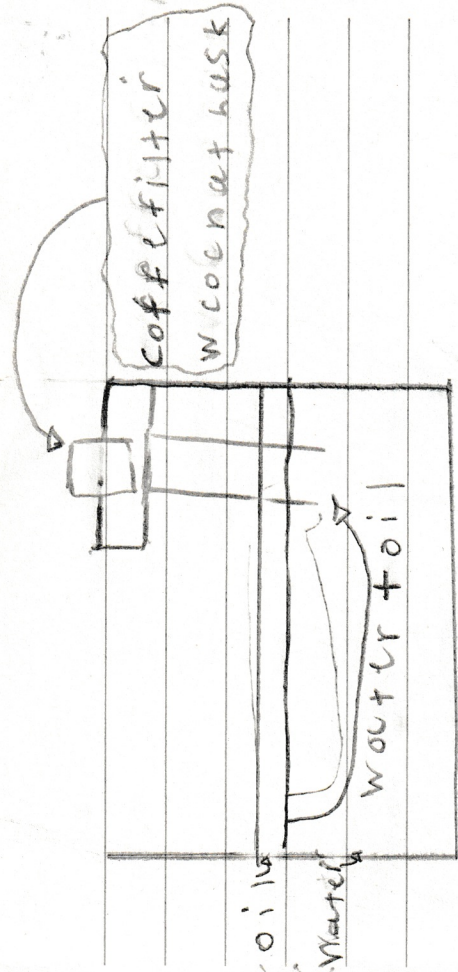
| Material | time min | Amount of water at start cm | Amount of oil at start cm |
|----------------|-------------|--------------------------------------|---------------------------------|
| • Cotton wool | 3 | 4 | 2 |
| • Peat moss | 3 | 4 | 2 |
| • Coconut husk | 3 | 4 | 2 |
| • hair | 3 | 4 | 2 |
| • bees wax | 3 | 4 | 2 |
| • Control | 3 | 4 | 2 |
| • flour | 3 | 4 | 2 |

coconut husk filter
 coffee



poor model

DID NOT WORK



Volume of Water

Length (L) = 25.4 cm
 Width (W) = 50.8 cm
 Height (H) = 14.78 cm

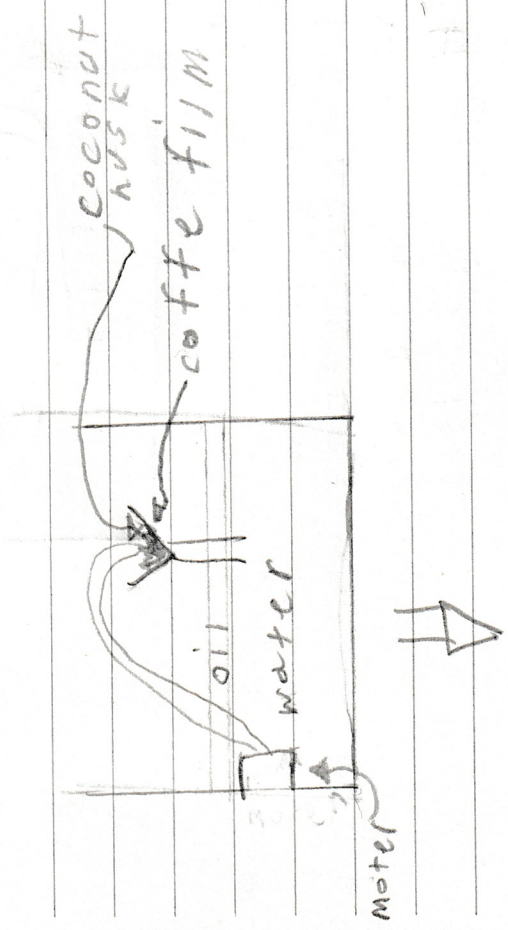
Volume = L x W x H

Volume = 22941.9 cm³

Volume oil = 200 ml

Did not work why??

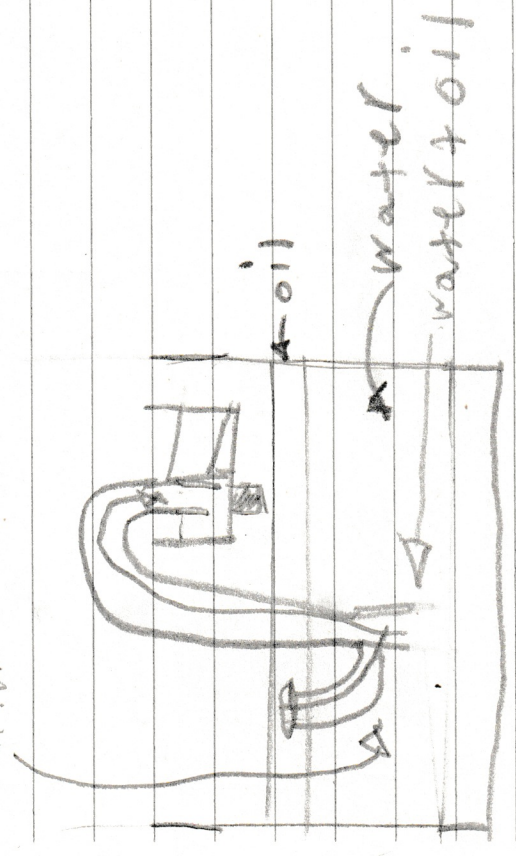
Because water poured out of top with oil



DID NOT WORK
WHY?

oil layer is on top
so it will not filter.
can't have the water out
of the water because
the water will over heat

Skimmer



Worked!!!