

## Amphibian Water Recipe – 400 liters (artificial pond water)

1. Fill 5 gallon bucket  $\frac{1}{2}$  full of DI H<sub>2</sub>O
2. Toss in large magnetic stir bar
3. Place bucket on stir plate and start spinning
4. Weigh out 1500 grams NaCl and toss in bucket
5. Weigh out 42 grams of MgSO<sub>4</sub> and toss in bucket
6. Weigh out 21 grams KCl and toss in bucket
7. Weigh out 84 grams of NaHCO<sub>3</sub> and toss in bucket
8. Place lid on bucket and let spin until everything is dissolved
9. Fill 1L graduated cylinder with DI H<sub>2</sub>O
10. Weigh out 42 grams of CaCl and toss in cylinder

**\*\*\* DO NOT PLACE CaCl IN BUCKET, YOU WILL CREATE A CORAL REEF\*\*\***

- Since the above recipe is in a 5 gallon bucket (~19 liters), the rest is regular H<sub>2</sub>O and the CaCl solution. Make sure that the solution in the bucket is well diluted with the rest of the water in your container before adding the CaCl to avoid precipitation.

For the Shaffer Lab... heres what to do

11. Lug the two water containers over to Animal Care
12. Use the Ladder to put the pump hose without the pVC fixture into the 400 liter tank
13. Unplug the black cord belonging to one of the pumps in the 400 liter tank
14. Plug the power strip making sure the little blue pump isn't on
15. Put the garden hose with regular H<sub>2</sub>O in the 400 liter tank and turn it on
16. Prime the pump by siphoning the tank water out of the tank (suck, suck!)
17. Flip the switch on the power strip turning the blue pump on
18. Pump the water out of the bucket and into the tank
19. Turn off the power strip allowing the bucket to fill again
20. Pump the water out
21. Add the CaCl to the nearly empty buckets
22. Turn off the power strip and let buckets fill the rest of the way.
23. Pump one last time
24. Turn pump off when finished
25. After the 400 liter tank is at the black line, turn off regular H<sub>2</sub>O and remove hoses
26. Remember to unplug power strip and plug in the black cord again.