

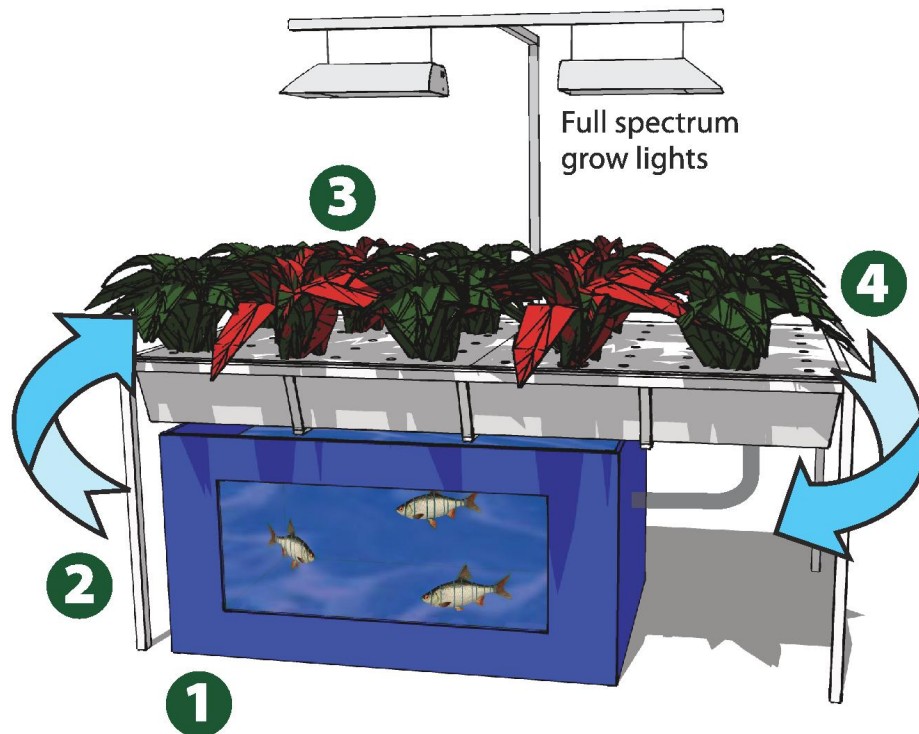
Aquaponics Maintenance

Please complete all questions on this form when interacting with the system.

* Required

Aquaponics

The science of raising of fish and plants in a symbiotic ecosystem.



- 1** The fish tank houses several freshwater fish such as: tilapia, catfish or koi. As the fish are fed, they create nutrients in the water (waste).
- 2** A water pump moves the nutrient rich water through a filter to remove solid particles.
- 3** After passing through the filter, the nutrient rich water flows into the plant growing channel where vegetables float on top of the water. The roots grow down into the water where they use the nutrients in order to grow.
- 4** As nutrients are used by plants the water becomes cleaner before it drains back into the fish tank.

This method allows for 100% reuse of water and lowers the water requirements of fish farming and growing vegetables by up to 90%.



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1. Type your First and Last Name: *

2. Is the water flowing normally through the system? *

If the answer is no, please let your teacher know.

Mark only one oval.

Yes

No

3. Is the air pump blowing normally? Check for bubbling in the fish tank. *

If your answer is no, please let your teacher know.

Mark only one oval.

Yes

No

4. Are there any observed leaks or spills? *

If the answer is yes, please let your teacher know.

Mark only one oval.

Yes

No

5. Please record the pH of the water

If pH is below 7.0, proceed to next question....if not, skip next question.

6. Please add either Calcium or Potassium to the fish tank. Make sure to dilute into a bucket full of water before adding.

Add 15 ml of liquid Calcium or Potassium to Supplement Addition Tank. These two bases must be alternated and never used at the same time. (For example, if Calcium was added the last time, use Potassium this time...and vice versa). Please be sure to mark when you used Calcium Hydroxide or Potassium Hydroxide on a clipboard left by your system.

Mark only one oval.

- Calcium Hydroxide
 Potassium Hydroxide

7. What is the Temperature of the Water? (F)
Refer to the thermometer in fish tank.

8. Are there any fish mortalities to report? *
If yes, please notify your teacher.

Mark only one oval.

- Yes
 No

9. Feed the fish according to instructions below. Record amount you fed in grams (NUMBERS ONLY!)

Administer feed to all tanks with fish. Add small amount to each tank and only add more after they have eaten. Do not add food to a tank that has not consumed all the feed. Record total amount of feed given. Never exceed 50 grams of total feed per day.

10. Did the fish eat normally when you fed them? Describe feeding response and report for each tank/species.

Observe feeding response. If not eating immediately, walk away for 5 minutes and observe feed remaining in tank.

**Aquaponic
Plants**

In this section, you will make observations on the plants in the system as well as report any harvest made

11. Did you harvest lettuce today? *

Mark only one oval.

Yes

No

12. How many units of lettuce was harvested?

Please enter the weight in pounds

13. Check the plants for pests. Please explain what types of pests and pest damage are present. If there are any pests or damage present, please notify your teacher. *

14. Please comment on the condition and health of the plants. Be detailed with plant variety etc... *

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