- DIY Aquaponics Materials List -

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Materials List

Tanks
You can get the 50 and 100 gallons tanks from any of the stores below:

- **100 Gallon Rubbermaid Stock Tank**
- **50 Gallon Rubbermaid Stock Tank**
- Or you can source them locally at your nearest available stores (livestock, garden supply, aquarium store or the sort).
- Use existing tanks that you may have lying around.

Growbed Support

1. **Cinder Block Support**
   - Eight *Cinder blocks*.
     - Two 5” x L” wooden planks to support the growbed. (L” will depend on the length of the growbed and the fish tank that you are using).

PVC Piping

- **Schedule 40 (Class 6) 1 inch PVC**
  - Approximately 16 inches of PVC pipe (assuming your standpipe is 11” and your silencer drain line is 5”).
  - **One 1” Bulkhead fitting/Tank Connector** (may need to be pre-ordered). *Bulkheads seem to be different in different countries, so it’s advisable to get advice from your supplier in purchasing it and the coupler that goes with it, for our purpose.*
  - One female threaded coupler (threaded on one end & smooth on another). *Advisable to get advice from your supplier in purchasing the bulkhead that goes with it, for our purpose.*
  - One, 50mm to 25mm PVC reducing coupling.
• **Schedule 40 (Class 6) ½ inch PVC**
  
  - Approximately 4-5 feet PVC pipe (Depending on the distance from the pump outlet to the top of the growbed). And 4-6 inches for the aeration line.
  
  - 3 x ½", 90 degree pipe elbows (2 for the inverted “U” and one for the aeration line).
  
  - ½" tee PVC fitting for the aeration line.
  
  - One, ½" ball valve (aeration line).

• **Schedule 40 (Class 6) 110mm PVC**
  
  - 8”-12” depending on the height of your growbed media (at least 1” taller than the media).
  
  - Two, 110 mm end cap at the bottom to lock the strainer (the second one to cover the strainer top).

**Pumps**

- One **Submersible Pump 2000 liter/minute** (about 530 Gallon Per Hour) capacity with 4-6 feet of head is sufficient.
  
  o Or alternatively, source it from your local aquarium store.

- **Teflon tape** with ½” female one end threaded coupling for the pump outlet.

- **One Aeration Pump with an Air Stone** *(Optional)*.

- A standby battery operated aerator/air pump and an air stone to keep the fish alive in case of pro-longed power failure.
**Water Chemistry**

- **Nitrifying Bacteria**, **Chlorine Neutralizer**, **Sodium Thiosulfate** and **Ammonium Chloride tablets** (assists initial bacteria start-up) if you want to speed things up.

- **Water Chemical Master test kit** or individual test strips for pH, ammonia, nitrites and nitrates you can get these from the above link.

**Tools**

- PVC **pipe cutter** or a **hacksaw**.

- Drill with **32mm Hole Saw** for the growbed. (Get the size that is right for the threaded end of your bulkhead as explained earlier).

- **7mm drill bit** for the construction of the growbed strainer and for the drain line silencer.

- **4 or 5mm drill bit** for the “Leak Hole” in the bulkhead.

- **10mm-15mm drill bit** for the holes in the bottom end cap (optional).

- **Power drill**

**Miscellaneous**

- **Expanded Clay Pebbles** (Hydroton, 200 litres)

- **Fish Food**

- **Nursery Tray**

- **Working gloves (cut resistant)**

- **Sand paper (fine grit)**

- **Medium strength clear PVC glue** if you intend to glue up your PVC pipes.
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