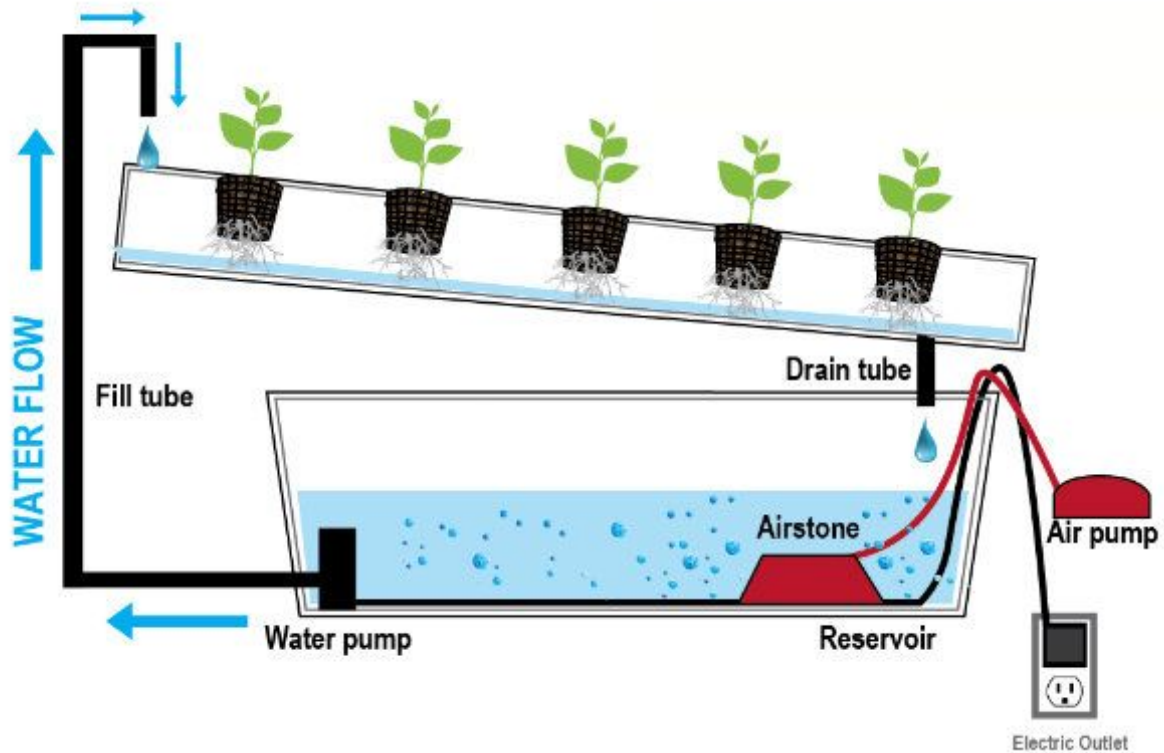


Hydroponics



Group 8

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Decline needs in hydroponics:

“Kids”

Things to focus on:

- Making it portable and small, but with the greatest yield.
- Making the reservoir large enough, easy to clean, and making the drip system easier to align.
- Making a good place to brand our story which includes the Parkdale Food Center, Growing Futures, and sponsors.
- Needs the modularity, the good lighting, and the good spacing of the plants.
- Making the water systems lightweight.
- Lighting should be made of LED bulbs because LED bulbs can save more electricity.
- Sensor to alert when reservoir is empty.
- Bigger reservoir.
- On wheels, the size and the material of the wheel.
- Small enough to fit in elevator.
- Backup reservoir.
- The plant is easy to survive in the reservoir.

Groups/Priority

1) Portability

- On wheels
- Foldable
- Small but efficient

2) Accessibility

- Modularity
- Lightweight
- Low to the ground
- LED light

3) Reservoir

- Big reservoir and removable
- Easy to clean
- Sensor
- Feeds each plant equally

4) Branding

- Good place to sell and market product (food market)
- They already have connections with markets.

Problem statement:

The client's previous green wall is too inconvenient and does not function the way they want it too. They seek to have a green wall that is easy to use, efficient and cheap. This green wall must be able to fit in the elementary school elevator and be removable by kids aged 5-10.