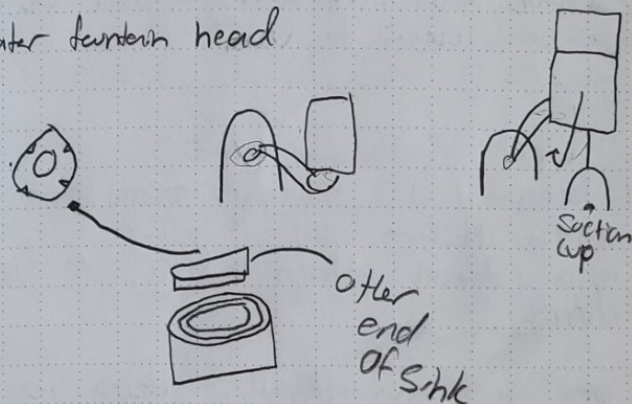
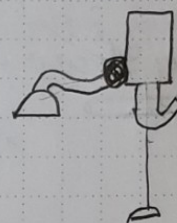


Do drinking fountain heads unscrew?

water fountain head



Suction cup straw

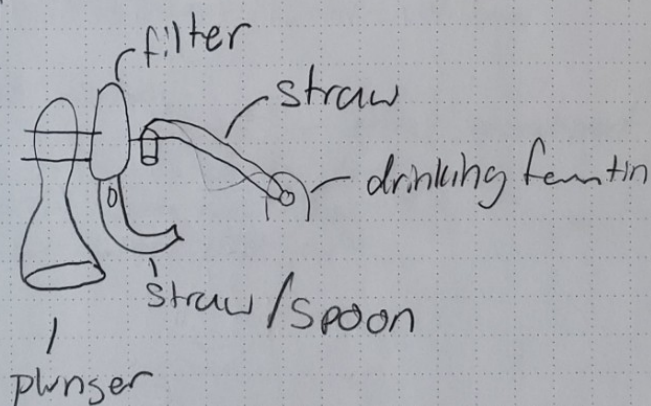


- Attach to drinking fountain base (next to)
- from faucet screw in

- Dentill tube
 - make it stronger
 - shaver tubes (harder less destructible)

- base
- straw like
- spoon

*handicap requirement?



Signature:

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Title: IC carts

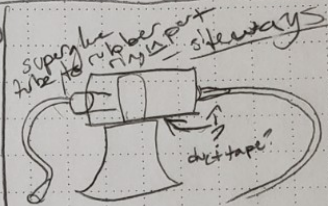
33

Materials Shopping list:

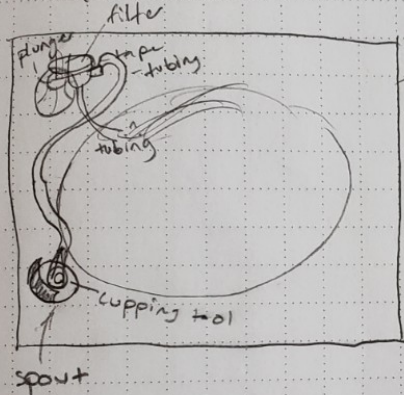
- sink plunger
- small suction cups that can be fit to a straw
- tube thing
- spoons

Checklist (not in order)

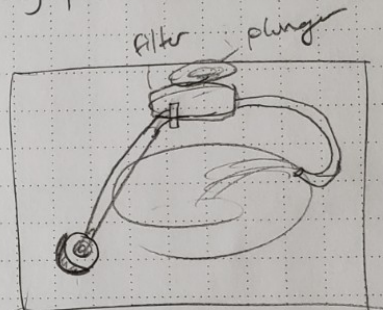
1. buy
2. assemble, possibly 3-D print parts?
3. test
4. make IC video



Sketches:



drinking fountain



problems: cupping tool doesn't fit over spout
angling water to drink from side

solution: curve material out w/ exacto knife

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Problems: contaminated water in schools - drinking fountains

solution: faucet attachment filter but for water fountains take off original nozzle, + first screw on / attach filter which has nozzle attached

brainstorm: attaching to filter:

- replacement for spigot altogether
- straw attaches to where water comes out of spigot, device simply slots over spigot
- device replaces segment of piping
- device screws in - next to spigot (main filter part)

reverse engineer? - by sink for research

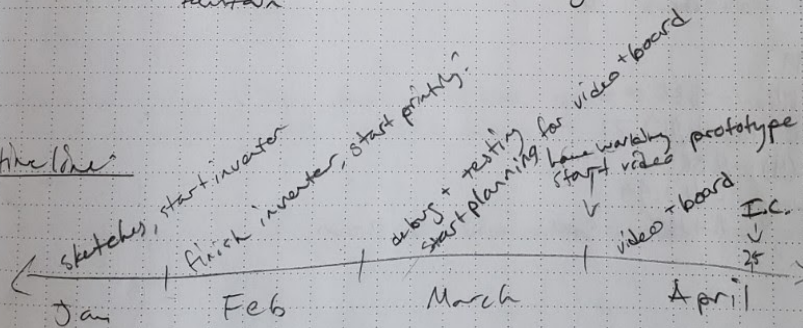
More Ideas

problem: How many kids are poisoned by bad water each year
How many faucet purifiers are bought each year / how many ppl own one
Flint water crisis

Can also be used for parks + other public water fountains, gyms, stadiums, any water fountain

how it works: Attaches a faucet filter of your choosing to a water fountain

Timeline



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Team Members:

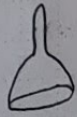
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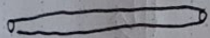
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Plunger:



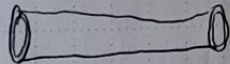
used as a suction cup base in order to hold the filter in place. can stick to any surface so it is versatile and easy to use.

Water bottle Straw:



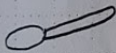
- Beneficial because it is meant to transport water and is therefore safe to use
- Problem is it doesn't attach to filter or fountain directly

Sink tube



- has screw ons so it can directly attach to filter
- Can't directly attach to drinking fountain
- not made to transport drinking water

Spoon



- help hold straws in place and can bend them into the right angle to have water bounce off
- difficult to shape and would need to attach separately

Cupping Suction cups



- fits directly over drinking fountain and filter
- need to stretch out to make adjustments
- can't be melted so attachment is difficult

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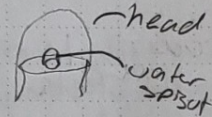
Team Members:

Sara Solok

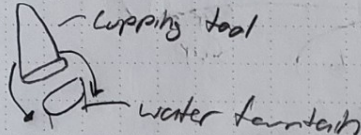
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Attaching filter to drinking fountain head:

- Take off fountain head
- have attachment over the entire head
- ★ Only attach to the part that water comes out of



- The only thing that fits over the spout is the cupping tool



Problem:

Getting correct angle to have water shoot out of

- Use spoon to angle water
- ★ Use flexible straw to angle water

- Straw is malleable so water can come out at any angle needed for drinking

Problem: Maintaining water pressure

- Use air to press water through at high pressure
- ★ have small tube so the water is forced to come out with good water pressure

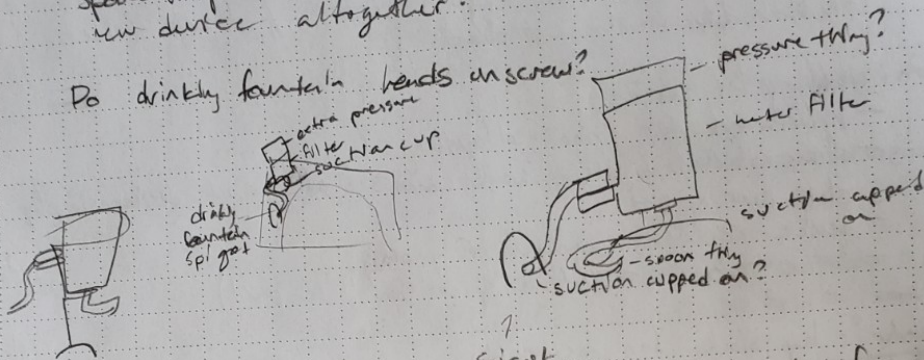
- The diameter of the drinking straw is small enough to maintain water pressure

Problem: leaking

- Use one material for entire attachment so nothing leaks
- ★ Attach with soldering iron
- ★ Attach with hot glue
- ★ Attach with duct tape

55/64" thread - takes male or female, screws in
 drips out bottom
 spoon shape on bottom to shoot up?
 run device altogether?

Do drinkly fountain heads unscrew?



Spigot
 tube = dentist tube material? wrapped in metal for real thing
 like in showers, but smaller
 base, spoon thing, straw/handa attachment

problems - handicap requirements
 filter can be taken out by anyone
 stand flimsy?

budget - like 20 dollars - check 30

materials - filter

tubing - 10.99

sink filter - \$30.00

cupping tools (4) \$12.71

spoons (4) - \$1.88

sink plunger - \$2.99

tubing thing - \$4.45 - Sarah's water bottle straws

Signature:

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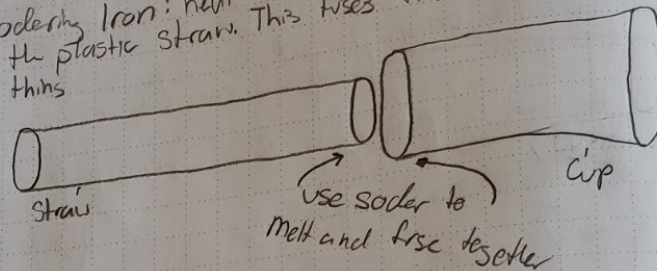
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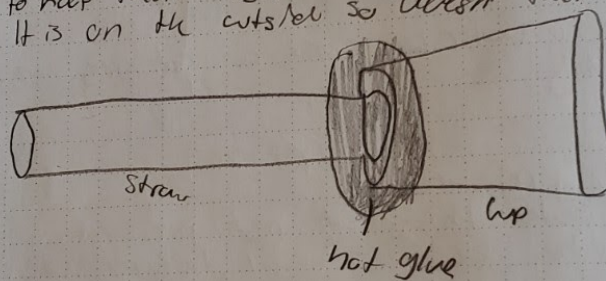
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- Soldering Iron: heat is used to melt plastic cupping together to make them
the plastic straws. This fuses them together to make them
thins



- Hot Glue: Use on the outside of the cup and straw to keep them together and make them water tight. It is on the outside so doesn't touch the water.



- Duct Tape: Attaches straw to filter. Holds straws in place so they stay connected but are not water tight. Also holds filter to plunger.

Signature:

Witness:

Date:

Date:

Team Members:

Sara Salik

Title: Fut

- Use filter ext. Duct

Sign
With