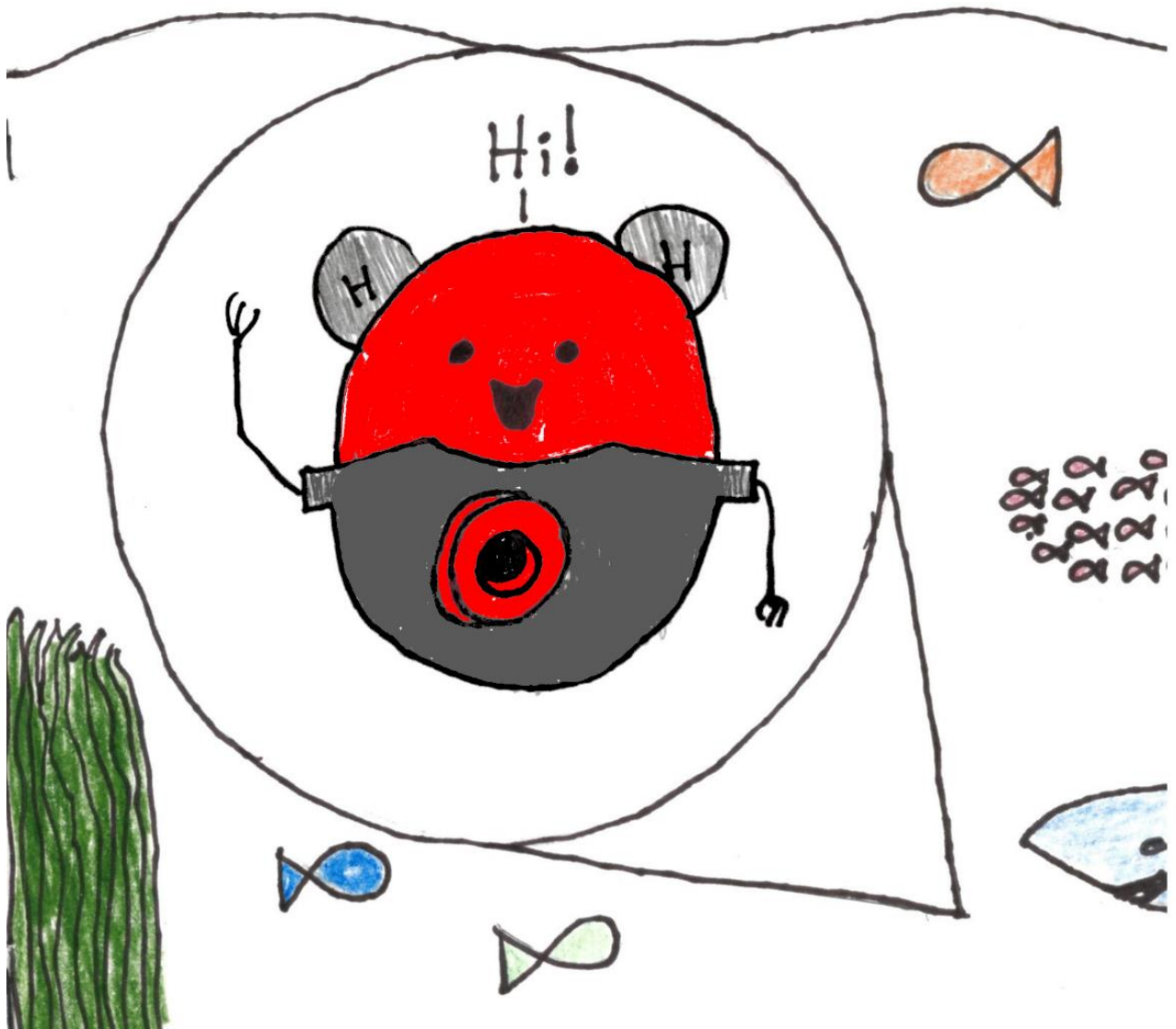
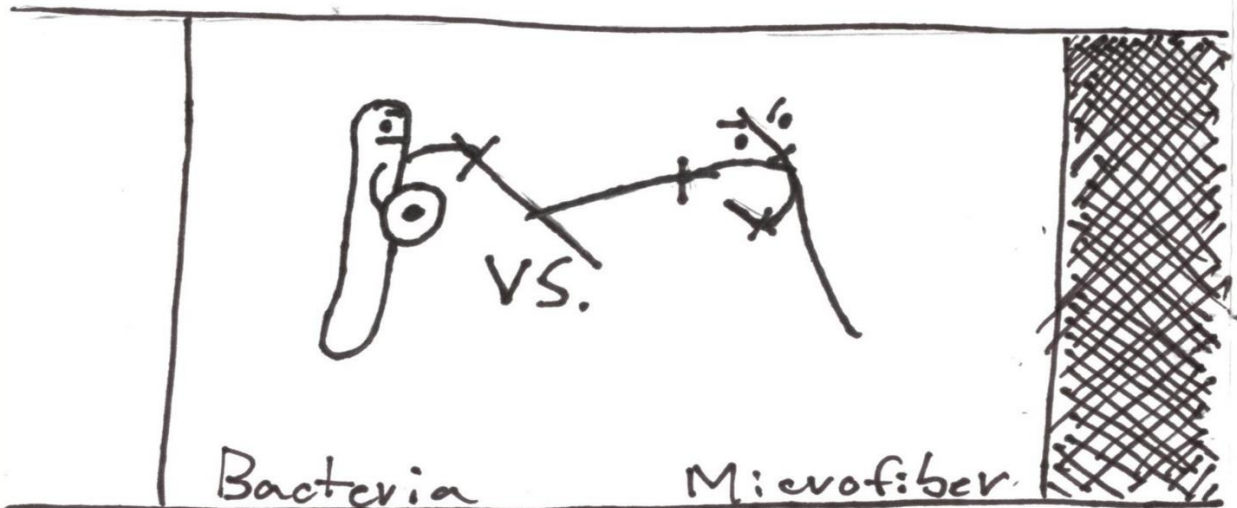


# The Adventures of Aech:

Microfiber trouble







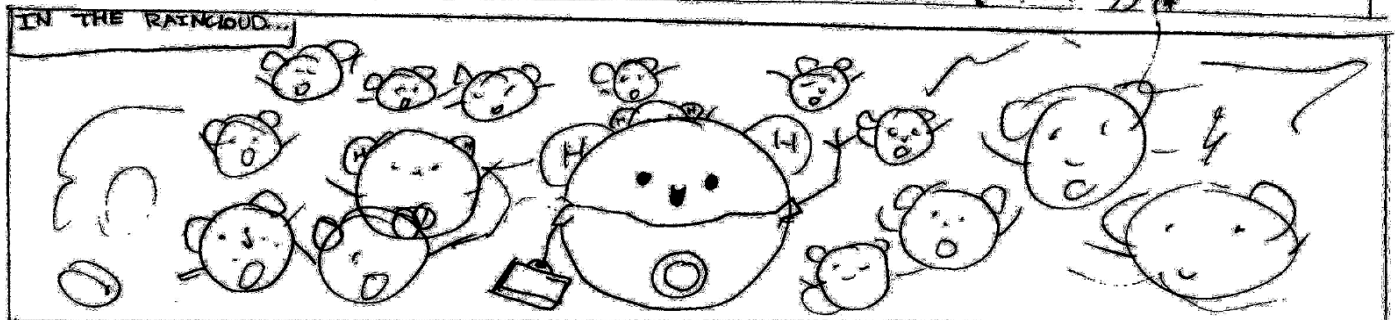
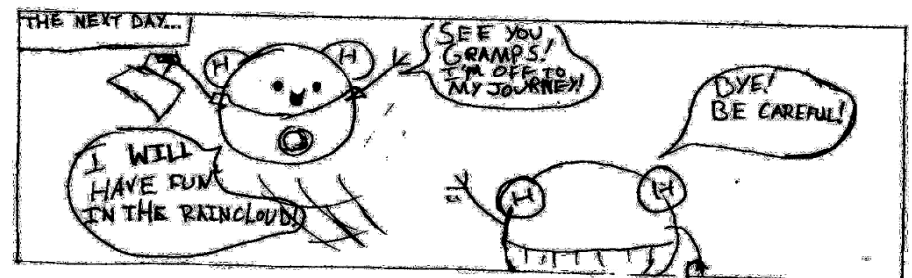
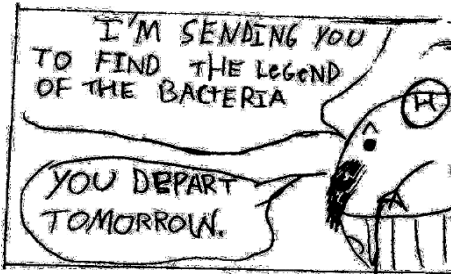
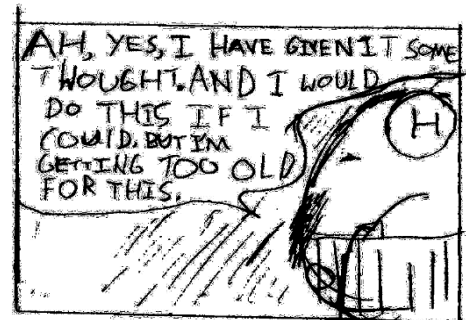
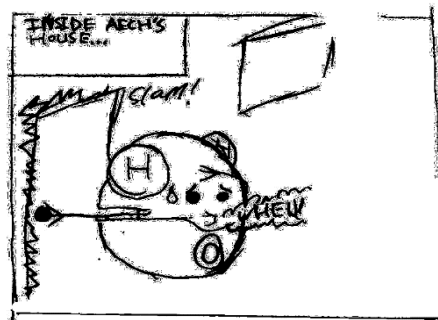
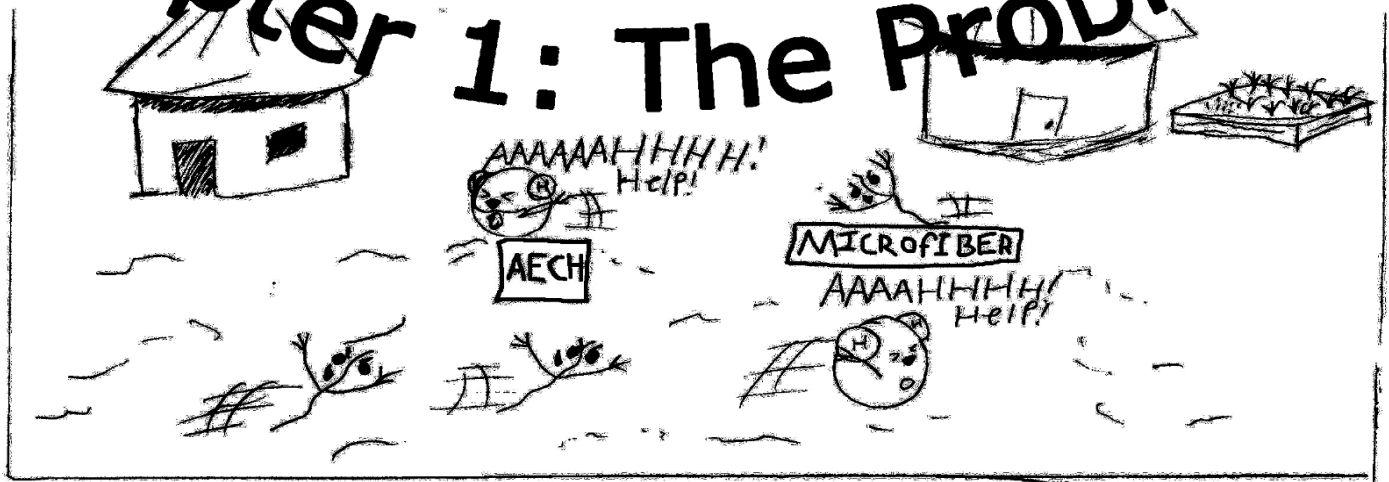
Bacteria

Microfiber

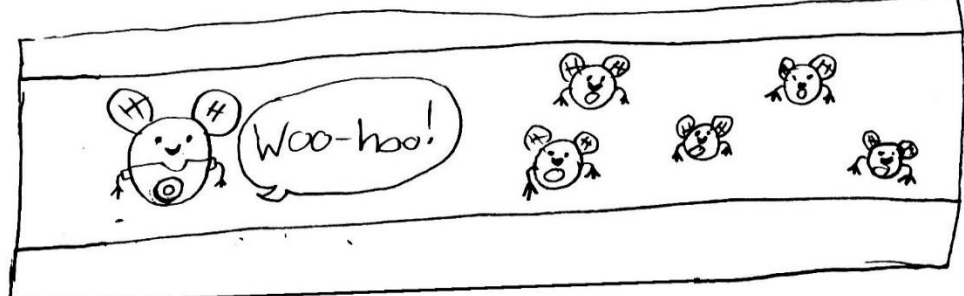
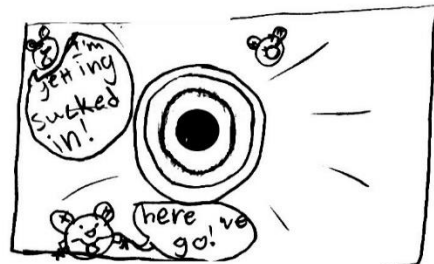
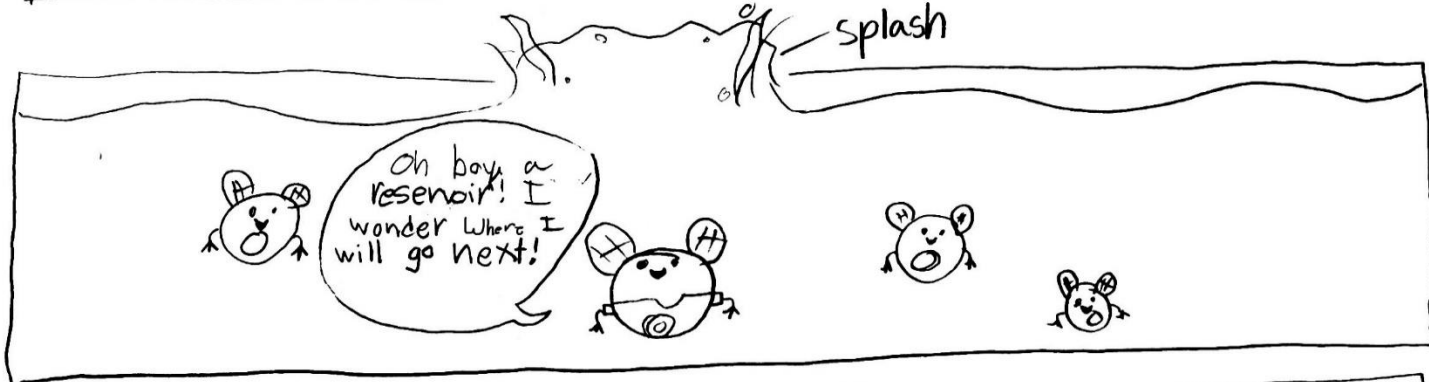
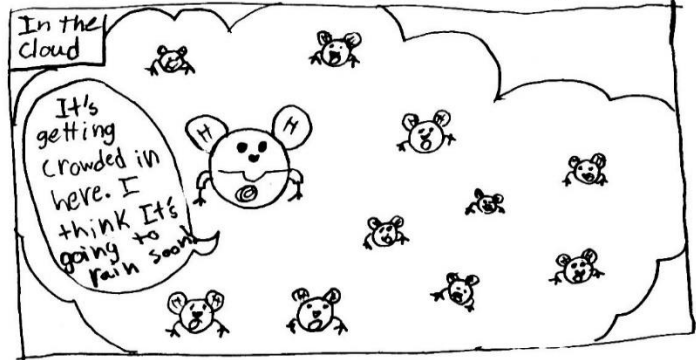
A very, very, veeery  
Short graphic novel

Story & Art by:  
Guinness and Innaias Duniho  
and Isaac and Sylvie Nelson

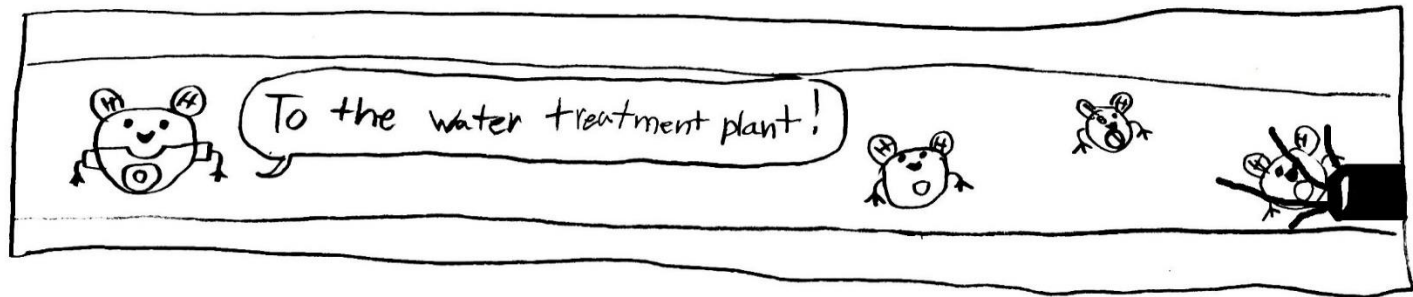
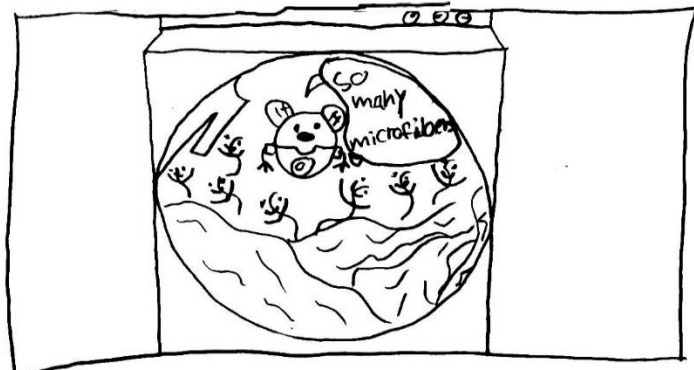
# Chapter 1: The Problem



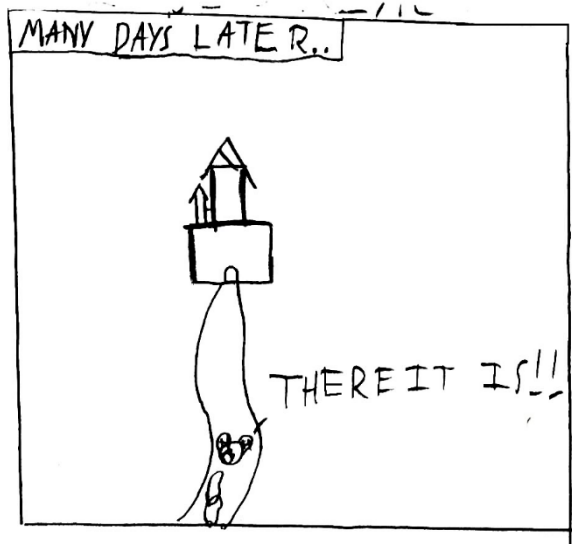
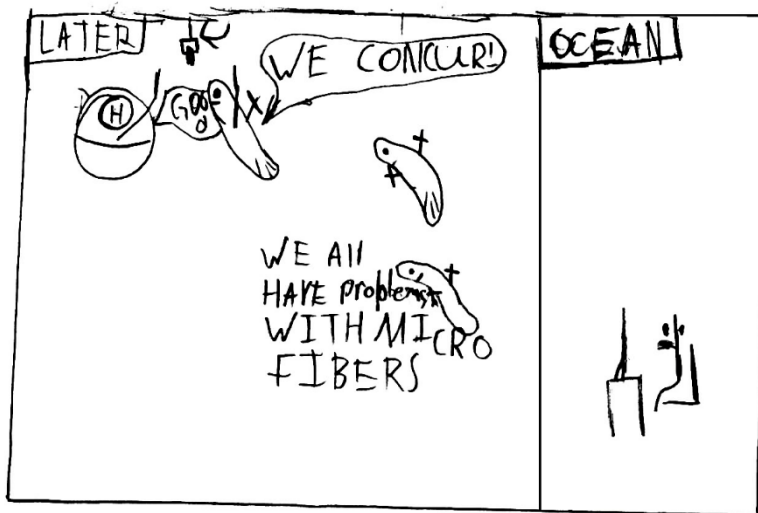
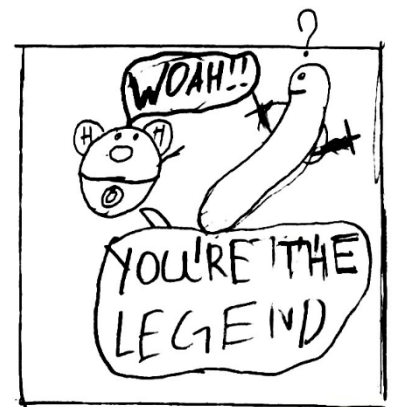
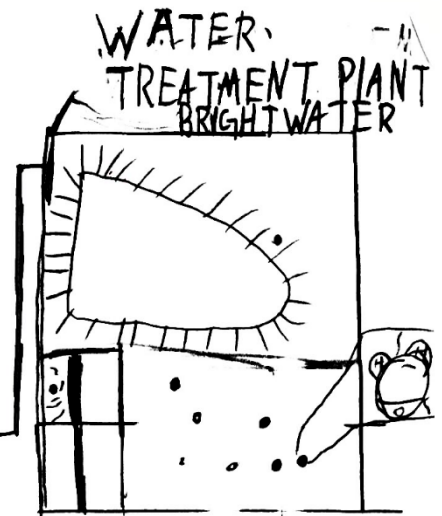
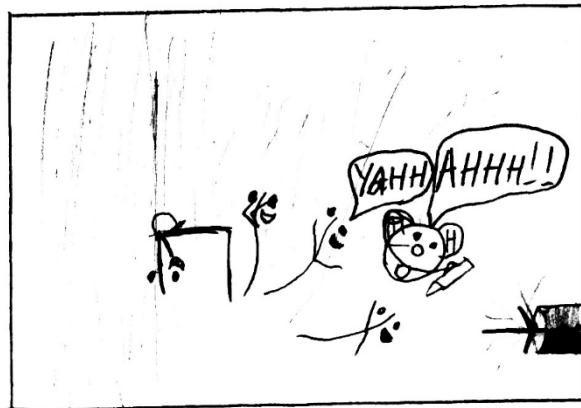
# Chapter 2 The Journey!



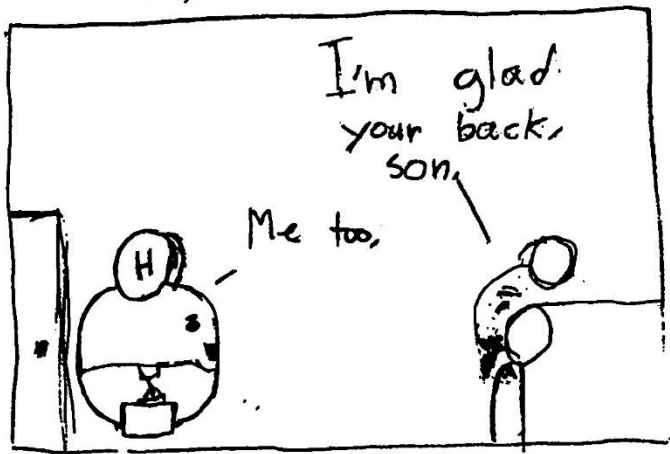
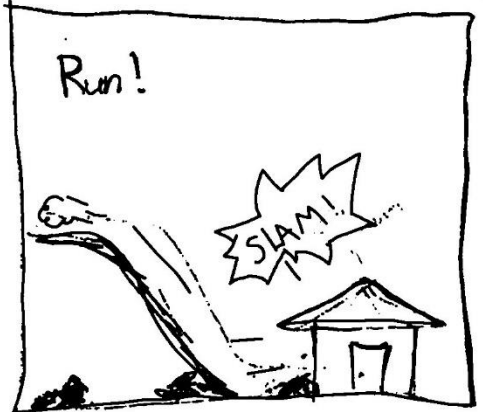
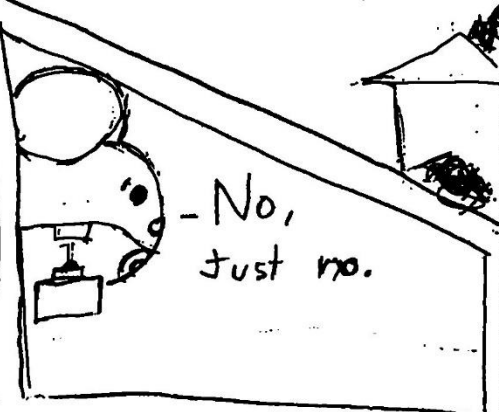
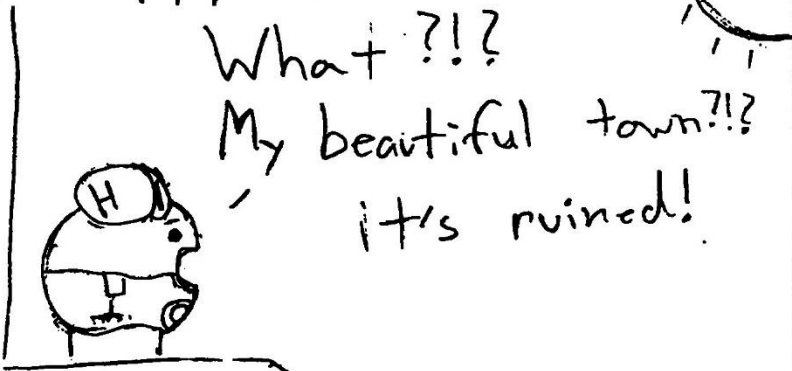
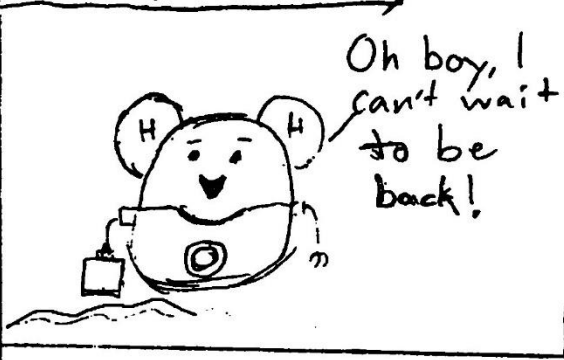
## In The Washing Machine



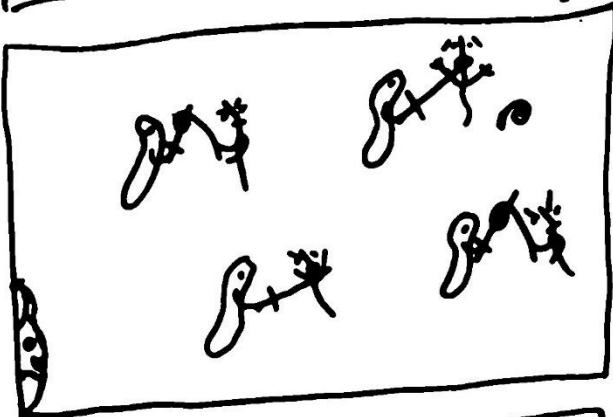
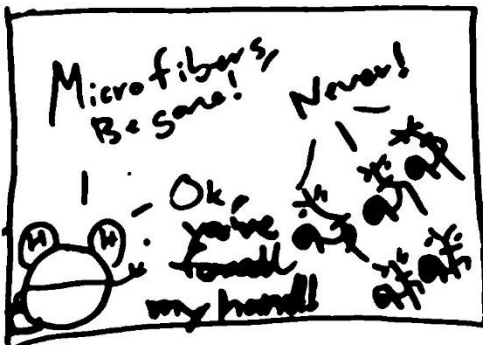
# Chapter 3: The Meeting



# Chapter 4 THE BATTLE

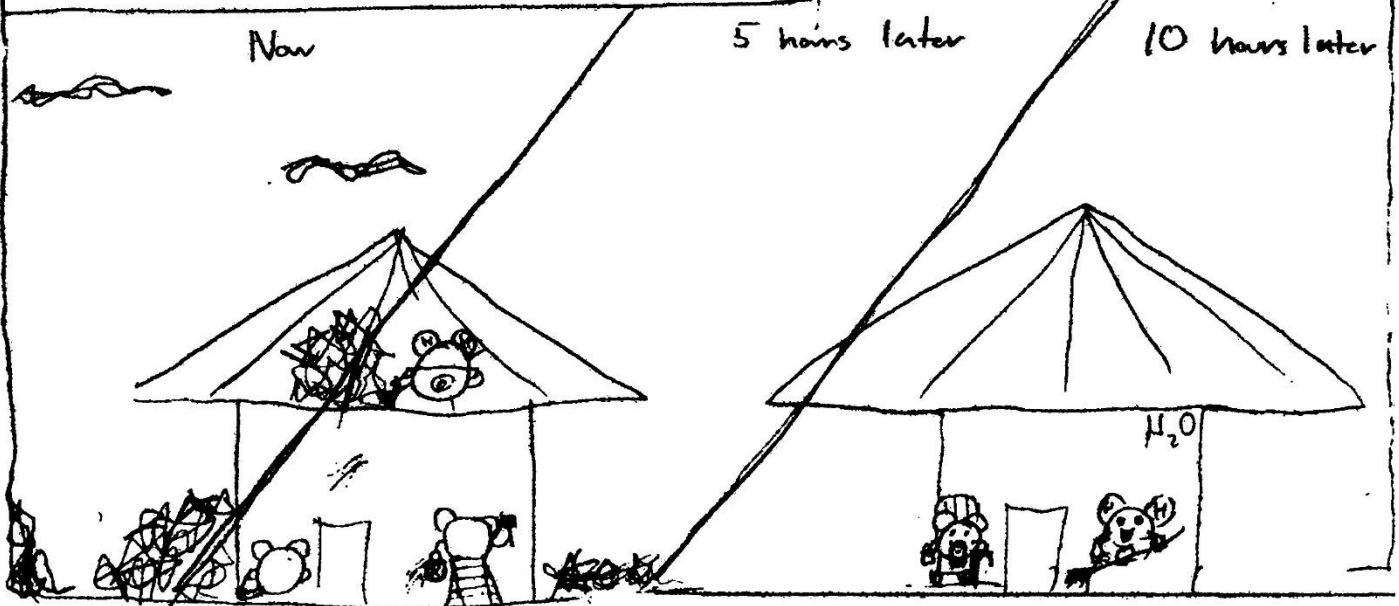


Ok guys, listen up. I need all of you to evacuate the rest of the town while I...





And now, to clean up the trash!



And, with the microfibers gone, it was happily ever after!

The next day...



*And everyone lived happily ever after!*

Or did they...

Turn the page

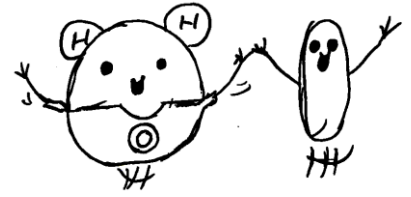
and

you'll find out!

# Wait! That's NOT TRUE!

Our oceans could eventually be free of microfibers, but right now, they are filled with a lot of plastics, big and small. Here are other things that are not true about the comic.

1. Water molecules DO NOT talk!
2. Water molecules DO NOT age (or grow beards)!
3. Introducing any kind of organism (including bacteria) into the environment without research on their impact is irresponsible!
4. Plastic eating bacteria (*Ideonella sakaiensis*) are not put into the water treatment plant. There are other types of bacteria that help break down the solid waste in water treatment plants.



## Here's What's True!

Microfibers are microscopic fibers that get released from garments. Most of the microfibers come from washing our synthetic fibers in our washing machines and it gets into our waterways like rivers and ocean. Fish and seafood eat the microfibers and we end up eating them too. Cows, pigs and chickens are fed fish meal. Even your pet dog may have fish meal in their dog food.



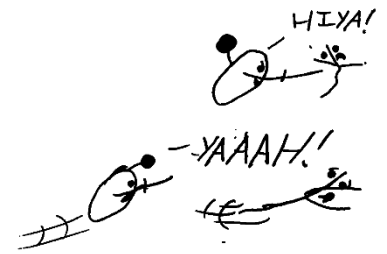
## Here Are the Numbers!

- Microfibers can be anywhere from 3 to 60 microns (for comparison, a strand of hair is 70 microns thick).
- There is an estimated 1.4 million trillion microfibers in the ocean.
- 60% of clothing is made of polyester (synthetic fiber).
- One fleece jacket can shed up to 250,000 pieces per garment per wash.
- One in 3 shellfish, one in 4 fin fish tested from fish markets in California had microfiber in them.

# Here's What You Can Do!

- Dispose of plastics correctly
- Pick up litter especially plastic litter everywhere especially on beaches
- Buy natural fibers whenever possible
- Minimize washing non-natural fiber clothing (only wash it when it really needs washing)
- Write to your legislature
- Write to your clothing manufacturers
- Sign the petition

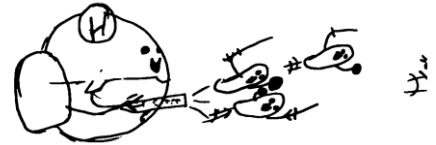
[http://action.storyofstuff.org/sign/stop\\_microfiber\\_plastic\\_pollution/](http://action.storyofstuff.org/sign/stop_microfiber_plastic_pollution/)



## For More Information:

You can go to <http://swerverobotics.org/resources/fll-resources/> or

<http://storyofstuff.org/movies/story-of-microfibers/>



<https://www.theguardian.com/environment/2016/jun/20/microfibers-plastic-pollution-oceans-patagonia-synthetic-clothes-microbeads>

<https://www.5gyres.org/faq/?rq=microplastic>

<https://www.scientificamerican.com/article/plastic-not-so-fantastic/>

<https://www.theguardian.com/environment/2016/mar/10/could-a-new-plastic-eating-bacteria-help-combat-this-pollution-scourge>

