

Besongabang Water Project

Behavior Change Campaign

Primary School Classes

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OVERVIEW

As part of Groundwork Institute and United Action for Children's clean water project in Besongabang, the on the ground team of Carybeth Reddy, Takor Tambe and Tabe Timothy, facilitated water disinfection and sanitation classes in the primary schools in Besongabang. The classes focused on teaching about the water cycle to demonstrate how the water sources, specifically the wells, in Besongabang have become contaminated from the latrines. This was used as motivation to encourage students to treat all of their drinking water in their homes.

As behavior change is a challenge, we thought focusing on young children who are still learning and building habits was an effective way to encourage behavior change. As an important addition to water disinfection, we also taught students about hand washing, as it goes together with maintaining good water health and hygiene.



School 1 – Government Primary School Besongabang

Classes were carried out at the Government Primary School Besongabang on February 23 and 25 and March 2 and 4, 2015. A total of 136 students ages 6-11 participated in the classes. Each grade level had a total of one hour and 30 minutes of class time divided between two days. The participant breakdown is as follows:

Grade Level	Age (years)	Participants		
		Boys	Girls	Total
1	6	14	11	25
2	7	13	16	29
3	8	9	8	17
4	9	11	14	25
5	10	13	10	23
6	11	10	7	17
TOTAL		70	66	136

Based on quizzing the students at the end of each lesson, they had learned the primary take away – how and when to disinfect water.



A participant practices disinfecting water using household bleach.



A participant uses 3M Petrifilm to test Besongabang well water for coliform and e-Coli.



Participants show 3M Petrifilm tests of well water and water disinfected with bleach



Facilitators demonstrate proper hand washing technique.

School 2 – Government Bilingual Primary School Besongabang

Classes were carried out at the Government Primary School Besongabang on March 18, 20, 24 and 26, 2015. A total of 135 students ages 6-11 participated in the classes. Each grade level had a total of one hour and 30 minutes of class time divided between two days. The participant breakdown is as follows:

Grade Level	Age (years)	Participants		
		Boys	Girls	Total
1	6	10	7	17
2	7	11	12	23
3	8	18	11	29
4	9	11	11	22
5	10	12	8	20
6	11	10	14	24
TOTAL		72	63	135

LESSON PLANS

Class 1
45 minutes

Materials:

20 liter bucket with cover
20 liters of well water
Petri film test plates
Droppers
Marker
Bleach
Tangui Cap
Posters
Pre-bleached water (for testing)

1. Introduction
 - a. Peace Corps
 - b. Groundwork/UAC water project
2. Warm-up Questions
 - a. Is clear water always safe to drink?
 - b. Can water have germs in it that we cannot see?
 - c. Can water have germs in it that makes us sick?
 - d. If animals go into water, is it safe to drink?
 - e. Does water for drinking need to be in a covered pot?
 - f. Can eau de javel (bleach) make our water safe to drink?
3. Water Pathway
 - a. Where does your water come from?
 - b. Where is your water collected and how is it stored?
 - c. Is there any point in the journey of the water from its source to your drinking cup where germs could get into the water?
 - d. EXPLAIN WATER CYCLE POSTER
4. What contaminates our water?
 - a. Latrines
 - b. Animals
 - c. Dirty storage container or drinking cup
 - d. Trash
5. What happens if you drink dirty contaminated water?
 - a. Runny stomach/diarrhea
 - b. Cholera
 - c. Typhoid
 - d. Dysentery
 - e. NOT GOOD, can lead to death
 - f. Leads to dehydration and malnutrition
6. Water testing
 - a. Test well water from 20 L bucket
7. How do we disinfect water?
 - a. 1 tangui cap of eau de javel (bleach) for every 20 L of water
 - b. Let sit for 30 minutes

- c. Store in a clean, covered pot or bucket
- 8. Water testing
 - a. Test pre-bleached water (explain that it has been sitting for more than 30 minutes)
- 9. Review questions
 - a. Is clear water always safe to drink?
 - b. Can water have germs in it that we cannot see?
 - c. Can water have germs in it that makes us sick?
 - d. If animals go into water, is it safe to drink?
 - e. Does water for drinking need to be in a covered pot?
 - f. Can eau de javel (bleach) make out water safe to drink?
- 10. What did you learn today?
- 11. GO HOME AND TELL YOUR FAMILY!!!

Class 2
45 minutes

Materials:

20 liter bucket with cover
Petri film test plates from previous class
Marker
Bleach
Tangui Cap
Posters
Glitter
Water (for hand washing)
Soap

1. Review previous class
 - a. Water cycle
 - b. What can contaminate our water?
 - c. What happens if we drink dirty water?
 - d. How can we disinfect our water?
2. Review water test results
 - a. Review what the dots on the test plate mean
 - b. Is this water safe to drink?
 - c. Why does the test with bleach have no spots/contamination?
 - d. Which water do you want to be drinking?
3. Review water treatment
 - a. 20 L water, 1 tangui cap eau de javel, 30 minutes
4. Hand washing
 - a. What are germs?
 - b. What kind of illnesses do germs bring?
 - c. Where are germs?
 - d. How can you avoid germs?
5. Glitter experiment
 - a. Since we cannot see germs, let's pretend this glitter represents germs on our hands
 - b. The facilitator should cover his/her hands with glitter and then shake hands with a few students in the class to demonstrate how germs spread
 - c. Ask those students to show their hands to the class
 - d. Have those students shake hands with someone else or touch an object in the classroom
6. Hand washing
 - a. When must we wash our hands?
 - i. Before eating
 - ii. After using the toilet
 - iii. After touching animals
 - iv. After shaking hands
 - v. After blowing our nose or covering our mouth
 - b. How do we wash our hands?
 - i. Use soap and clean water
 - ii. Scrub front, back and in between fingers for at least 15 seconds

7. Demo hand washing
 - a. Have the students with glitter on their hands demo as well
8. What did you learn today?
9. How do we disinfect water?
10. TELL YOUR FAMILY!