

TEACHER CHEAT SHEET AND NOTES

HEALTH DEPARTMENT BUILDING (Coordinates: -300, 64, 33)

- What to do at this location
 1. Upon entering, they should begin by talking to Dr. Ryan and the Staff Director. You can find people to talk to by looking for people surrounded by red carpeting. Immediately to their left is a teleportation station. They can use this to go back and forth to the different sites.

- Audio transcripts:

Audio File: record.11

- DR. RYAN (in front of building): “Welcome to the Department of Health. Today you are going to be “Epidemiologists in training”. Please go inside, and our staff will tell you what you need to do next.”

Audio File: record.13

- STAFF DIRECTOR (Directly inside building): “Welcome. We need your help to investigate some new illnesses in the area. There are 6 sites, each with different illnesses that are most likely due to mosquitoes in the area. Use the room to the left to teleport back and forth to the different sites. Once your teacher has determined that you are ready, we will provide you with level 2 security clearance, in order to obtain items within the health department.”

2. After they have completed the first chart and know which diseases occur at each of the 6 sites, you can give them a lever (or button) to open the iron doors for level security clearance to go upstairs. Upstairs they can gather all of the supplies they will need to control diseases at their sites. If they are looking for things that are not available, you can use a simple give command. **Example /give @p grass**

Audio File: record.wait

- KIM (upstairs in building): “Welcome back young epidemiologists. Follow the red carpeting to visit different areas of the health department. You will need to collect different supplies as you visit each room. Think about what items you are going to need at your site in order to control your disease. If you can’t find something you are looking for, ask your teacher for some help”

Students can also find cameras in the upstairs chests. They can use these to take photos of their sites, or they can take photos other ways

SITE INFORMATION

This list is not all-inclusive, but it should give you plenty of ideas of ways these sites can be controlled. Allow students to be creative, and come up with other control methods as well.

SITE 1 – WEST NILE VIRUS

Coordinates: 276, 72, -79

Notes about this site:

- This site represents West Nile virus
 - Flu-like symptoms
 - Abandoned swimming pool
 - Clogged sewer water
 - Birds nearby
 - Suburban area
 - Chickens

- Examples of control measures at this site
 - Obtain a button to fix the pool pump
 - Unclog the sewers
 - Treat mosquito areas with fish or other control options
 - Vaccinations
 - Personal protections
 - Public education
 - Repair any damaged windows and doors
 - Place out mosquito traps
 - Use of treated bed nets around beds

- Audio Transcripts

Audio File: record.cat

- KRISTEN (In front of house): “Thank you so much for your help. Last week I had some pretty bad flu-like symptoms. I’ve noticed that the mosquitoes have been pretty bad lately. I’ve even seen some flying in my house. I’ve noticed that things have been worse since the sewer systems have been clogged up.”

SITE 2 – MALARIA

Coordinates: 332, 65, 75

Notes about this site:

- This site represents Malaria
 - Child that died
 - Child had had periods of fever and chills
 - Habitat is more swampy
 - There are some areas nearby that can produce a lot of good mosquitoes (they can look for the lily pads)
 - Homes have lots of open air for entry of mosquitoes

- Examples of control measures at this site
 - Control the habitats by letting water flow, or filling them in
 - Modify habitats
 - Treat mosquito areas with fish or other control options
 - Provide prophylactic treatment to the rest of the family
 - Personal protections
 - Public education
 - Repair any damaged windows and doors
 - Place out mosquito traps
 - Use of treated bed nets around beds

- Audio Transcripts

Audio File: record.far

- SEAN (In front of house): “This is really hard to talk about, but thank you for coming. Last week my daughter died, after off and on fever and chills. Please help, so I can help protect the rest of my family.

Audio File: record.chirp

- JORDAN (in swampy area): “Ever since that new homeowner built his home and these bridges, the mosquitoes have been awful. I actually live on the other side of this mountain and own the bakery. If the mosquitoes stay bad, I’m going to lose my business. Please help.”

SITE 3 – EASTERN EQUINE ENCEPHALITIS VIRUS

Coordinates: 422, 66, -226

Notes about this site:

- This site represents Eastern Equine Encephalitis virus
 - Flu-like symptoms
 - Encephalitis (brain swelling in a grandparent)
 - Horses in the barn
 - Birds nearby
 - Saltmarsh habitat, with nearby forest

- Examples of control measures at this site
 - Modify the saltmarsh, so water is not pocketing
 - Treat mosquito areas with fish or other control options
 - Vaccinations to horses
 - Protection to horses, and maybe even fix barn
 - Personal protections
 - Public education
 - Repair any damaged windows and doors
 - Place out mosquito traps
 - Use of treated bed nets around beds

- Audio Transcripts

Audio File: record.mall

 - ELLIOTT (In front of house): “Thank you for coming. My grandmother is in the hospital. She has some brain swelling. I’ve also noticed that some of the horses in the barn are acting a little strange.”

SITE 4 – ZIKA VIRUS

Coordinates: -156, 67,-335

Notes about this site:

- This site represents Zika virus
 - Flu-like symptoms
 - Lots of trash and containers in the area
 - An underwater storm drain needs repair
 - More urban/ Suburban area
 - Woman has small children
 - Lots of ways mosquitoes can fly indoors

- Examples of control measures at this site
 - Unclog the storm drain
 - Treat mosquito areas with fish or other control options
 - Clean up trash
 - Personal protections
 - Public education
 - Repair any damaged windows and doors
 - Build some additional infrastructure in the area
 - Place out mosquito traps
 - Use of treated bed nets around beds

- Audio Transcripts

Audio File: record.mellohi

 - JACKIE (In front of house down the street): “You seem awfully young to be an epidemiologist. I thought you might be here for something else. My neighbors are always complaining about my kids not picking up their trash outside. But, yeah, sure, I’ve been sick. Not really bad, just some flu-like symptoms.”

SITE 5 – JAMESTOWN CANYON VIRUS

Coordinates: -110, 66, -1

Notes about this site:

- This site represents Jamestown Canyon virus
 - Flu-like symptoms
 - Cows in the area
 - Snow is still on the ground, although melting
 - Lots of camping and things nearby, where people can be exposed

- Examples of control measures at this site
 - See if the habitat can be modified to reduce mosquitoes from breeding
 - Can small sources of water be filled in with dirt or grass
 - Treat mosquito areas with fish or other control options
 - Personal protections
 - Public education (especially around the recreation area)
 - Repair any damaged windows and doors
 - Build some additional infrastructure in the area
 - Place out mosquito traps
 - Use of treated bed nets around beds

- Audio Transcripts

Audio File: record.stal

- ANDREW (In front of house): “My kids and I were sick with flu-like symptoms. Nothing too bad. I was kind of surprised when the doctor said it might be from a mosquito bite. It’s been really cold up here in the mountains. So I don’t know what to tell you, except you should go enjoy the recreation area for some hiking while you are here.”

SITE 6 – CANINE HEARTWORM

Coordinates: -150, 64, -469

Notes about this site:

- This site represents Canine heartworm
 - There are no sick people, only sick animals
 - There are dogs (wolves) in an enclosed area
 - There is a nearby park, including a dog run area
 - Lots of small pockets of water collecting on the ground
 - Lots of clogged water areas around the lake

- Examples of control measures at this site
 - Fill in areas of standing water
 - Unclog the water collecting areas in the lake
 - Treat mosquito areas with fish or other control options
 - Personal protections
 - Public education
 - Repair any damaged windows and doors
 - Place out mosquito traps
 - Use of treated bed nets around beds
 - Better protect the animals in the shelter

- Audio Transcripts

Audio File: record.strad

 - AIDEN (In front of house): “Thank you for coming. I haven’t been sick, but the mosquitoes have been really bad. When I saw a few sick animals, I thought I would give you a call. Especially since there is a very busy park and playground nearby.”

GIANT MOSQUITO

Coordinates: -1, 64, 385

- This is mainly just an extra little site that students can walk around to look at a giant mosquito. There are signs on the mosquito, if they would like to read a few little interesting facts about mosquitoes
- Next to the teleportation device, there is a chest. They can find a lever in the chest. They will be able to use this to unlock the door in the “Level 2 security” area, in order to go upstairs.
- Audio Transcripts

Audio File: record.ward

- SALLY: “Welcome to the giant mosquito. Take a close look at the mosquito and look for some signs that discuss interesting biology and behavior”