

Lesson 3a **Alternate Student Activity Sheets**: Where are the bacteria around us?

INDIVIDUAL:

1. Write down two places in a school where you think there might be a lot of bacteria, and write down two places in a school where you think there will be very little bacteria. Explain why you chose these places.

2. The following questions are ones that two classes of high school students in Novi, Michigan decided to investigate in fall of 2017 by taking swabs of surfaces in their environment and transferring what was on the swab to the surface of a Petri dish. Circle three of these investigations that you want to see the results for.

Investigation	Question being investigated
A	How does what is found on the toilet handle and water fountain handle compare, before and after being cleaned with sanitizer?
B	How does what is found on the table compare, before and after being cleaned with Clorox (bleach)?
C	How does what is found on the band handle, chromebooks, and the toilet seat compare before and after being cleaned with Chlorox (bleach)?
D	How does what is found on the pool bleachers compare to what is found on the stadium bleachers?
E	How does what is on the surface of the locker compare, before and after being cleaned with sanitizer?
F	How does what is on our hands compare before and after being washed with sink water?
G	How does what is on the counter in the boys bathroom compare to what is on the counter in the kitchen?
H	How does what is on our hands compare when treated with hand sanitizer before and after touching the inside and outside door handles on the school doors?
I	How does what is on our hands compare when treated with hand sanitizer before and after touching the handle on the stalls in the bathroom?
J	How does what is on our hands compare when treated with hand sanitizer before and after touching the hand railings on the stairs?
K	How does what is on our hands compare before and after holding the class hall pass, and before and after cleaning our hands with soap?
L	How does what is on a cleaned finger (with soap) compare before and after touching a calculator button or a door handle?

3.

For the three investigations you circled, make predictions: What do you think you will see in the results 3 days after swabbing and leaving the sealed Petri dishes in their classrooms?

Predictions for investigation ____

Predictions for investigation ____

Predictions for investigation ____
