



Name: _____

Spreading Diseases

Class: _____

Purpose: To demonstrate the ability for disease to spread from only one infected person.

Materials:

- Small cup with clear solution
 - Glove
 - Phenolphthalein indicator solution
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Procedure:

One of our students has come in contact with a disease! To demonstrate this, his/her clear solution has been infected with NaOH solution. ****NaOH is corrosive. Please be extremely careful in handling the solutions and moving around the room!****

Diseases can be spread when someone

- forgets to wash their hands after using the washroom.
- sneezes or coughs into their hands and then touches a doorknob, keyboard, phone etc.
- shares water bottles with teammates.
- shares cosmetics with their friends.
- kisses or exchanges bodily fluids with someone else infected.

There are many ways diseases can be spread. Can you think of any others?

You are going to simulate the regular day to day interactions that occur with you and members of the rest of your community. Some of those contacts are direct (speaking, touching) and some are indirect (door handles, computers). Make sure your interactions within this lab include both (ie. Don't simply share with your friends – this is not evident of the real world.)

Interact how? You will move about the room and share your fluid with 7 other students.

Be sure to be polite, courteous and CAREFUL when sharing your fluids!

Please return to your seat when your sharing is complete.

Result: Your teacher will then come around with phenolphthalein indicator solution. One drop of indicator in an infected student will turn their solution PINK.

Are you infected? _____