

Name \_\_\_\_\_

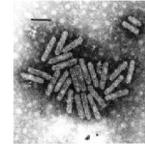
Period \_\_\_\_\_



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### Lab Activity: Transmission of Disease

*Will YOU become infected?*



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You are watching the news and see a story about a virus that is spreading throughout the local community. The virus spreads through the exchange of bodily fluids. You become increasingly worried about your risk of infection and have decided to go to the doctor's office in order to get tested for the virus.

**Virus:** We must first decide what virus we would like to infect our community. Write down the virus chosen by the class: \_\_\_\_\_

#### Before Testing:

1. You need to obtain your body fluids. In order to do this, I will come around and give you one Dixie cup filled with distilled water. This will represent your bodily fluids. However, **one** of you will be given a cup that contains a few drops of Sodium Hydroxide. This represents the virus and so you will already be infected with the disease and have the potential to infect those people you swap bodily fluids with. **You will not know if you already have the disease or not!**
2. Next, you will need to swap bodily fluids with **three** people in your community.
  - Choose a partner
  - One of you needs to pour your liquid into the other person's cup.
  - Now your fluids have mixed.
  - Pour half of the liquid back into the empty cup. You should both now have an equal amount of bodily fluids.
  - Record your partner's name in the following data table.
  - You need to do this **THREE** times **ONLY!**

Trial #	Partner Name
1	
2	
3	

#### Make a Guess

4. How many people do you think will become infected by the end of the lab? *Remember, only one person will be infected with the virus in the beginning.* \_\_\_\_\_

#### Time to Get Tested

5. Now that you have swapped bodily fluids with others, you are at-risk for an infection. You have now decided to go to the doctor.

