Name_				_
Period_				

YOU GAVE ME WHAT?! A simulation of the spread of a sexually transmitted disease

PURPOSE

- Study how a sexually transmitted infection is quickly transmitted through a population.
- Identify at-risk behaviors for getting a sexually transmitted infection.
- Review some of the sexually transmitted diseases that are common today.

GENERAL INFORMATION ABOUT THIS SIMULATION

This activity is designed to simulate how a sexually-transmitted infection moves through a population, and to illustrate what types of behaviors make you "high-risk" for getting that disease. To get accurate results, the entire class will participate and share data. You will sign up to be in one of 3 groups, and will be asked to behave as someone in this group might behave. The groups are:

Group A: "It Won't Happen To Me": Has multiple partners and doesn't use condoms.

Group B: "Safety First": Has multiple partners and always uses condoms.

Group C: "Waiting for Mr/Miss Right!": Is monogamous, and has only 1 partner who is also

monogamous. There is a lot of trust between these two, and so they don't use condoms.

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hat are the names an	d symptoms of so	ome sexually	transmitted dis	seases? List as	s many of them	as you can
e box below.						
sed on what you have nsmitted disease? L				make you mor	e likely to get a	a sexually
instituted disease. L	13t as many as yo	a can in the ov	on ociow.			
hat is your hypothes				•		the greate
mber of "infected" s	tudents, and why	? Write your	hypothesis and	l reason in the	box below.	

PROCEDURE AND DATA

- 1. Your teacher will assign you a cup of "body fluid". One person in the class will have "infected" body fluid (containing starch), and all others will be "healthy" (no starch). DO NOT play with your cup of fluid until given further instructions!!
- 2. Write the label on your cup here:_____
- **3. BEGIN THE SIMULATION.** This simulation will occur in 2 rounds.

ROUND 1 ACTIVITY: Follow the procedure on the board regarding exchanging body fluid. Record the cup label # and outcome of each encounter in Data Table #1 below. Draw a line after all Round 1 data has been entered.

ROUND 2 ACTIVITY: Follow the procedure on the board regarding exchanging body fluid. Record the cup label # and outcome of each encounter in Data Table #1 below.

DATA TABLE 1

Time of Contact	Fluid Exchange - Yes or No?
Time of Contact	Fluid Exchange - Yes or No?

- **4. AFTER ROUND 1, FIND OUT WHO IS INFECTED.** 2-3 drops of iodine solution will be added to your cup. If you are "infected", the fluid will turn blackish-purple. If you are still "healthy", the fluid will be white in color. You will not find out the answers to this information until the end of Round 2.
- 5. AFTER ROUND 2, FIND OUT WHO IS INFECTED. If you are "infected", your cup label # will be recorded in Data Table 2, as will the cup labels with whom you exchanged body fluid during Round 1 and Round 2. All students will copy this information onto Data Table 2.

DATA TABLE 2

DATA TABLE 2					
ROUND 1 INFECTED CUP LABEL #	CONTACTS CUP LABEL # & TIME	INFECTED CONTACTS & CONTACT TIME			
ROUND 2 INFECTED CUP LABEL #	CONTACTS CUP LABEL # & TIME	INFECTED CONTACTS & CONTACT TIME			

ANALYSIS OF THE SIMULATION DATA

1.	What was the total number of infected students?
2.	Which of the Groups A, B or C had more infected members?
3.	Did this match your hypothesis? How was it similar or different?
4.	What cup was the one originally infected? Can you tell from this data? How?
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5.	Explain why public health officials always ask an infected person for his/her list of sexual contacts.

YOU GAVE ME WHAT?! ROUND 1 RULES

Group A:

Must meet 3 different people.

"Exchange body fluids" when meeting another person from Group A.

Do not exchange body fluid when meeting a person from Group B.

Write contact information in Data Table 1.

Group B:

You must meet 3 different people.

You do not exchange body fluid.

Write contact information in Data Table 1.

Group C:

You are waiting for Mr. Right or Miss Right! You sit out Round 1, but enjoy watching all your friends in action! You also console them when their relationships don't work out!

YOU GAVE ME WHAT?! ROUND 2 RULES

Group A:

Meet 3 different people, or pick one partner for the rest of the simulation.

"Exchange body fluid" with each person you meet and write the contact information in Table 1.

Group B:

Meet 3 different people, or pick one partner for the rest of the simulation.

If you meet different people, do not exchange body fluid with them.

If you pick a permanent partner, you will exchange body fluid with them.

Write the contact information in Table 1.

Group C:

You must find Mr. Right or Miss Right! When you do, you exchange body fluid with them.

Write the contact information in Data Table 1.

DATA TABLE 2

INFECTED PERSONS CUP LABEL #	CONTACTS CUP LABEL #	WAS THE CONTACT INFECTED?