

Lab: Disease Outbreak

In your group of four discuss ways that an infectious disease is spread around a community. Record your ideas in your interactive notebook.

- a) –
- b) –

Problem: Can the possible outbreak of a disease be analyzed and identified to its origin?

Hypothesis: If I examined the visited site traveled during vacation of a given population then color change indicator will reveal its location _____.

What is the independent variable?

What is the dependent variable?

Using the sample data complete the lab and identify “outbreak”.

Create a bar graph using the data

Based on your data what was your conclusion.

Name _____ Date _____

STUDENT SHEET 1.1

TRACKING THE DISEASE: COLLECTING DATA

- A. The Restaurant
- B. The Cafe
- C. Picnic at the Lake
- D. The Zoo
- E. The Market (convenience store)

Day	Place (where I went)	Action (what I did)
Day 1		1.
		2.
		3.
Day 2		1.
		2.
		3.
Day 3		1.
		2.
		3.

Do you have the disease? _____

STUDENT SHEET 1.2

TRACKING THE DISEASE: ANALYZING DATA

Analyzing the Locations

Place	Number of people who visited	Number of people who became infected*	Percentage of people visiting who became infected
A. Restaurant			
B. Cafe			
C. Picnic at the Lake			
D. Zoo			
E. Market			

Based on the data above, which place(s) do you think were most likely to be the source of the infection? _____

Use the tables below to analyze the most likely place(s) to find out what action caused the disease.

Analyzing the action at: _____

Action	Action name	Number of people who did the action	Number of people who became infected*	Percentage of people participating who became infected
1				
2				
3				

Analyzing the action at: _____

Action	Action name	Number of people who did the action	Number of people who became infected*	Percentage of people participating who became infected
1				
2				
3				

* Use these columns of data for your bar graphs.

STUDENT SHEET 1.2**TRACKING THE DISEASE: ANALYZING DATA****Analyzing the Locations**

Place	Number of people who visited	Number of people who became infected*	Percentage of people visiting who became infected
A. Restaurant	19	11	58
B. Cafe	20	8	40
C. Picnic at the Lake	21	15	71
D. Zoo	19	8	42
E. Market	17	7	41

Based on the data above, which place(s) do you think were most likely to be the source of the infection? *Lake picnic*

Use the tables below to analyze the most likely place(s) to find out what action caused the disease.

Analyzing the action at: *Lake picnic*

Action	Action name	Number of people who did the action	Number of people who became infected*	Percentage of people participating who became infected
1	<i>Swim</i>	17	16	94
2	<i>Eat a ham sandwich</i>	18	12	67
3	<i>Get a tick</i>	16	11	68

Analyzing the action at: *Lake picnic*

Action	Action name	Number of people who did the action	Number of people who became infected*	Percentage of people participating who became infected
1	<i>Eat a fish sandwich</i>	14	6	42
2	<i>Get a mosquito bite</i>	10	5	50
3	<i>Eat corn</i>	13	8	62

* Use these columns of data for your bar graphs.

