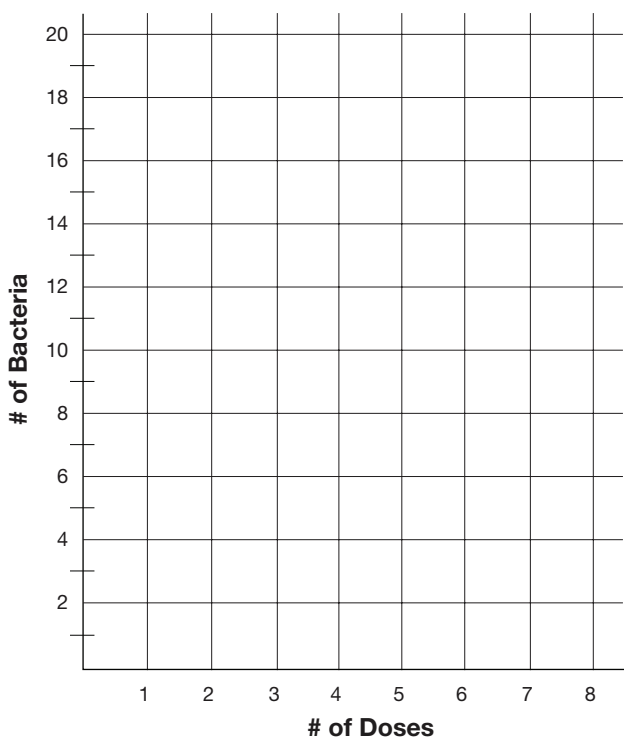


Antibiotic Resistance Simulation Worksheet

Data Table and Graph

Dose No.	No. Rolled	Bacterial Population			
		Low Resistance (Red)	Medium Resistance (Blue)	High Resistance (Yellow)	TOTAL
INITIAL	N/A	13	6	1	20
1					
2					
3					
4					
5					
6					
7					
8					



Post-Lab Questions *(Answer on a separate sheet of paper.)*

1. What general pattern was observed regarding the total number of bacteria present initially and the number remaining after eight doses?
2. Compare the initial and final counts of the least resistant bacteria. Explain any trend that was observed.
3. Did all three types of bacteria—least-resistant, medium-resistant and highly-resistant—follow the same pattern during the eight antibiotic doses? Explain.
4. Did any of the three types of bacteria have a greater population after antibiotic treatment than before? Why would this occur?