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West Nile Virus Transmission Worksheet

Data Table

	Number of Infected Vectors (mosquitos)	Number of Uninfected Vectors (mosquitos)	Number of Infected Hosts (birds, humans, horses)	Number of Uninfected Hosts (birds, humans, horses)
Round 1				
Round 2				
Round 3				

Post-Lab Questions

1. Which type of animal tends to have the greatest fatalities associated with West Nile Virus?

2. Why do mosquitos make an ideal vector for the West Nile Virus?

3. How does the number of infected and uninfected mosquitos change throughout the game? What does this mean in regards to how an infection spreads?

4. In this game if a mosquito bites an infected bird it will become infected. In nature, the probability that a mosquito will become infected depends on the type of bird it bites. For example, 40% of mosquitos that bite an infected scrub jay will obtain the virus and only 17% of mosquitos that bite an infected robin will obtain the virus. Discuss one possible reason this might occur.

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