



Data Collection

Data Table

Trial Number	Individuals Infected	Change in Individuals Infected
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		



Looking at the Results

1. Looking at your graph, how would you describe the spread of the virus from start to end?

2. Using the $\square \blacktriangleright$ key, move along your scatter plot and estimate when the virus is spreading fastest. Between what two consecutive trials did this happen?

3. Looking at your data table, you can see that there is a constant change of 1 in the first column. Is there a constant change in the number of infected in the second column? Complete the data table to determine the rate of change of those infected between consecutive trials. What is the label that needs to be applied to these values?

4. The ratio of Change in Number Infected to Change in Trial Number gives a numerical representation of the rate of the spread of the virus. Does the greatest rate of change in the data table match the value you found in the previous question? Explain why or why not. What does this mean about the spread of the virus?

5. Why does your graph level off toward the end?

6. Use the information you learned in this activity to describe the spread of the virus causing the common cold.



Going Further

In colder climates, what are some possible reasons that more people seem to become infected with the cold or flu virus in the winter more often? .

In general, why are diseases that are caused by bacteria more easily treated than viral diseases?