Name Period	Date	
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Flu Transmission

STEM Sims

Lesson 1: How Does Influenza Spread Through a School?

Influenza is a virus that causes the common illness called the flu. The flu is responsible for thousands of deaths each year. How does this disease spread through a student population?

Doing the Science

- 1. Start the Flu Transmission Simulation.
- 2. Select the "None" button under the Factor menu on the left-bottom of the screen.
- 3. Select the "Run" button at the bottom center of the screen.
- 4. Note the Progress bar, which shows time running for a six-week period.
- 5. Select the "1" icon on the Progress bar.
- 6. Count and record in Table 1 below the number of infected students at the end of the first week of the flu outbreak.

Table 1. Flu Infections

Week	Infected	Uninfected	Week	Infected	Uninfected
1			4		
2			5		
3			6		

- 7. Select the "2" icon on the Progress bar.
- 8. Count and record in Table 1 the number of infected students at the end of the second week of the flu outbreak.
- 9. Repeat this process until you have counted and recorded data for all six weeks.

What Do You Understand?

As time progressed, how did the number of students who were infected by the flu change
Provide a possible reason for your answer to the previous question.
Trovide a possible reason for your answer to the previous question.

exponer	quence 1, 2, 3, 4, 5, 6 is an arithmetic progression. The ntial progression. Is the spread of disease more like	
progres	sion? Support your answer with a reason.	
Describ	be how you think flu is spread from one student to anothe	er student in a school.
Influenz	za is caused by a virus. Compare and contrast a virus and	d a bacterium.