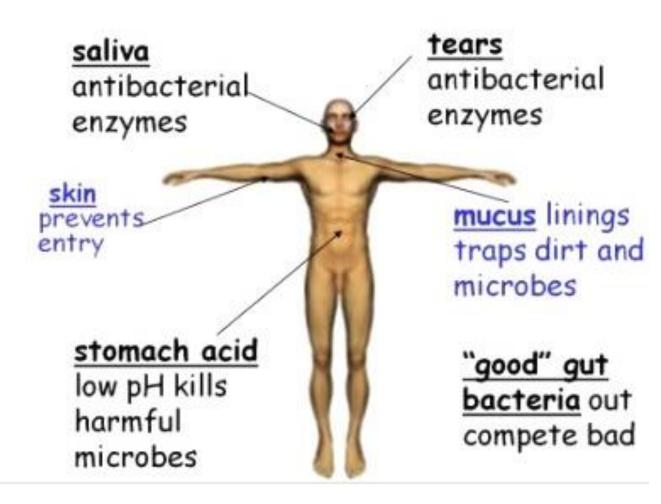
6th grade science for Nov. 15

- Theme for the rest of this week: Infectious Diseases!
- Finish your virus models

Your immune system!

<u>INNATE</u> IMMUNITY

First Lines of Defence



https://universe-review.ca/R10-40-Immune.htm

Beyond the first lines of defense: immune cells



CLASSROOM ACTIVITY



1918 Flu

Activity Summary

Students perform a sequence of six short simulations to model how an infectious disease can spread through a human population.

Materials for Each Student

- copies of the "Biology of Flu" student handout (one per student)
- copies of the "Tables and Graphs" handout (one per student)

Materials for the Class

- 20 sheets of self-adhesive stickers (1-cm diameter) in two colors
- stopwatch or timer

Yellow = Infected Pink = Vaccinated

LEARNING OBJECTIVES

Students will be able to:

- state that some diseases are the result of infection.
- describe the risks associated with biological hazards, such as viruses.
- name ways that infectious disease can be prevented, controlled, or cured.
- graphically represent data created in a classroom simulation.
- describe how a disease can spread rapidly among a population.
- explain how preventive measures help defend against infection.

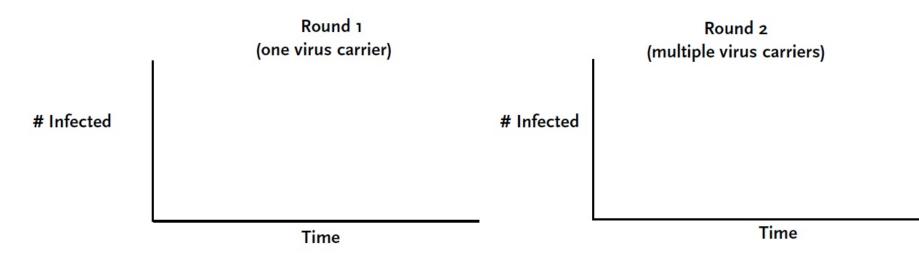
PROCEDURE

- I Ground rules for today's simulation of how a virus spreads through a population:
- In each round, move slowly, quietly, and calmly around the room.
- If someone puts a sticker on your arm or hand, make sure it stays in place.
- Don't actively avoid or seek out the virus carrier.

DATA TABLE FOR ROUNDS 1 AND 2

	Game Round 1	Game Round 2
Number Infected		

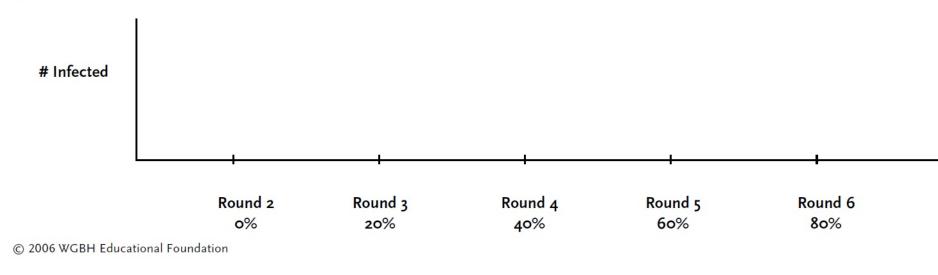
GRAPHS OF THE GENERAL INFECTION PATTERNS IN ROUNDS 1 AND 2



DATA TABLE FOR ROUNDS 2 AND 6

Round	Percent Inoculated	Number Inoculated	Number Infected
2	0%	o	
3	20%		
4	40%		
5	60%		
6	80%		

GRAPH OF DATA FROM ROUNDS 2-6



pbs.org/nova/sciencenow