

## Infectious Diseases

Name \_\_\_\_\_

### Movie: *Contagion*

Date \_\_\_\_\_

1. The first scene of the movie starts out on DAY 2. Why do you think this is? Predict what you think happened on DAY 1.
2. In the first scene, where is patient zero waiting? \_\_\_\_\_
3. Why is this location important?
4. Which organization is located in Atlanta, Georgia? \_\_\_\_\_
5. List 4-5 symptoms victims experience.
6. What was the differential diagnosis of patient zero?
7. Which organization is located in Geneva, Switzerland? \_\_\_\_\_
8. When the doctors at the CDC were talking about the outbreak in Minnesota, what did he say was the single most important objective when trying to contain an outbreak?
9. Initially, the disease was thought to be transmitted through respiratory routes and \_\_\_\_\_.
10. The average person touches their face \_\_\_\_\_ times a day.
11. For every person who gets sick, how many other people do they infect with the following diseases:
  - a. Flu \_\_\_\_\_
  - b. Smallpox \_\_\_\_\_
  - c. Polio \_\_\_\_\_
12. The rate at which a virus multiplies depend on several factors including:
  - a. The \_\_\_\_\_ period
  - b. How long a person is \_\_\_\_\_
  - c. The size of the population of susceptible people
13. Why is the US Department of Homeland Security talking to the CDC about this outbreak?
14. When they sequenced the genome of the virus, some of the origins came from what animal sources?
15. The virus attaches to human respiratory/nervous cells like a “\_\_\_\_\_ slipping into a lock.”

16. What is the mortality rate of this virus at this point? \_\_\_\_\_%
17. With the meeting with the WHO, why did CDC say they cannot grow the virus in cells?
18. Why is it such a concern that the researcher was able to grow the virus in a Bio Safety Level (BSL) 3?
19. What is the name of the virus? \_\_\_\_\_
20. Where was patient zero when she spread the virus to the Ukrainian woman and Hong Kong man?  
\_\_\_\_\_
21. In 1918 \_\_\_\_\_% of the population died from the Spanish Flu. With our population today, that means that \_\_\_\_\_ would die.
22. What effects are seen in the towns with the following places:
  - a. Pharmacies which have supplies of Forsythia
  - b. Grocery stores
  - c. Buildings on fire
  - d. Banks
  - e. State borders
23. How are people buried when they die?
24. Who is used to test experimental vaccines? \_\_\_\_\_
25. How long will it take to manufacture and distribute a vaccine to the world? \_\_\_\_\_
26. How did the government start the distribution of the vaccine to citizens in the US?
27. What type of vaccine is it if it is administered through the nose?
28. Explain the source, transmission, and epidemiology of the outbreak and transmission to patient zero.