

Name: _____
Date: _____
Period: _____

Surviving Ebola – NOVA

<http://www.pbs.org/wgbh/nova/body/surviving-ebola.html>

1. What were the symptoms of Patient Zero, a boy from Guinea, West Africa? _____

2. Because there was never an outbreak of Ebola in Guinea before, Officials were ____

3. Who are Doctors Without Borders? _____

4. When the Ebola virus enters the body, it hijacks human cells to do what? _____

5. How long does it usually take for a person to die from the disease? _____
6. Why is it unsafe to handle dead bodies? _____

7. When the very first Ebola epidemic occurred more than 40 years ago, a Belgium team of doctors went to the Ebola River to investigate. What do you think was the mental state of the plane's pilots? _____ What evidence from the video supports your claim? _____

8. Doctors realized that reusing un-sterilized needles was spreading the disease, but they also noticed that one week after a funeral another episode of infections would occur. How did funerals spread the disease? _____

9. The British nurse, Will Pooley, say, "It feels like you're really hosting a malevolent force." From what you know about Ebola, what des he mean by malevolent? _____

10. How does the 2014 epidemic compare to all other Ebola outbreaks worldwide? ____

11. Incubation is the time it takes for a person who is exposed to a disease, like Ebola, to begin to show signs of having the disease. It takes this period of time for enough of the virus to grow and hijack a person's cells. What is the Incubation Period for Ebola? _____
12. How do Ebola survivors from the past help Ebola sufferers today? _____

13. How are Ebola viruses like Velcro? _____

14. The doctor working to find a cure for Ebola has a hypothesis that if a patient can build an immunity to the Ebola proteins spikes then the virus cannot enter the cell. He exposes monkeys to the virus hoping for what effect? _____

15. This test led to the development of what drug? _____
16. From their experience with treating monkeys the doctors learned that you can't give a drug just once and expect a person to recover. You have to give _____

17. How is tobacco being used to cure Ebola? _____

18. It costs millions of dollars for a drug company to make and test a new drug. If Z-map is only used in Africa the drug company would probably lose money by making the drug. If you were the CEO of the drug company would you make the drug? _____ Explain your thinking. _____

