Grade 8 Science

Unit: The Human Body

Subunit: The Immunity System

**Task:** Watch the linked video for Osmosis Jones and answer the questions. We will review the answers after the movie. The movie is 95 minutes long.

1. List five things that Frank does that are unhealthy and/or unwise.

a.

b.

c.

1. What (kind of cell)/who is Osmosis Jones? What’s his job and what does his job entail?
2. When Osmosis misses the germ, what happens to Frank? Why do you think Frank responds in this way?
3. At some point, Osmosis is told he will be put into a “scab” or a “nosebleed.” How would either affect him?
4. What part of the body does the Mayor live in? Why do you think this is?
5. Why was the “flu virus shot” considered an informant?
6. Who/what is Drix? What is his purpose?
7. What can a cold/flu tablet do for a body? Provide at *least three* examples.
8. Many medicines are put into our bodies with water and transformed into an “effervescent” formula. What does this mean when we are talking about a medicine?
9. Think about the alimentary canal. When a cold pill is taken, at what point during its journey is it activated? At what point does the pill actually begin to take effect? Why do you think recommended doses tend to overlap?
10. Who/what is Thrax?
11. What is phlegm (pronounced “FLem”)? What is another name for phlegm?
12. What is the purpose of a spinchter muscle?
13. How would you describe Frank’s health?
14. What did Drix mean when he said he was “soothing and cooling” the throat?
15. What is a Swedish facial? What organ would a Swedish facial clean?
16. What are the mafia in Frank’s armpit supposed to represent?
17. What is a “time-released” tablet? How would it work in the human body?
18. What is the difference between a virus and a bacterial infection as far as using antibiotics?
19. Why might it be unhealthy to consume raw oysters?
20. What body system would try to fix Frank’s infected toe?
21. What causes a zit?
22. What is the function of a white blood cell? Refer to the “icky drink” fixed for Osmosis at the zit bar as to how this may actually work.
23. Why were the names Ralph, Chuck and Hurley used when referring to the vomiting scene between Frank and Shayne’s teacher?
24. What are the primary ingredients in beer? What is fermentation? Is it healthy for you to drink beer?
25. Can a white blood cell actually perform osmosis? Define “osmosis.”
26. Can a virus disrupt a person’s DNA?
27. How was Thrax eliminated? Would this work to kill a virus?
28. Can you fart cells out of your body?