AP Bio 12 Immune System Activity Immune Investigator:

A) Disease Detective

1. [http://www.pbs.org/wgbh/nova/typhoid/dete-flash.html](http://www.pbs.org/wgbh/nova/typhoid/dete-flash.html%20)

Notes:

B) How Does the Body Protect Itself from Foreign Invaders?

2. [http://www.glencoe.com/sites/common\_assets/science/virtual\_labs/LS27/LS27.html](http://www.glencoe.com/sites/common_assets/science/virtual_labs/LS27/LS27.html%20)

Notes:

C) Immune System Web-Quest

a. Go to Anatomy of a Splinter: [http://www.cellsalive.com/ouch1.htm](http://www.cellsalive.com/ouch1.htm%20)

Make sure to click on the links for chemotaxis, phagocytosis, and oxidative burst. Watch the movies under each link.

· How do macrophages find pathogens?

· How do they eat pathogens?

· How do cytotoxic T lymphocytes kill cells?

b. Play the game “fighting back” (must read “what happened” after game) [http://www.pbs.org/wgbh/nova/aids/immune.html](http://www.pbs.org/wgbh/nova/aids/immune.html%20)

· Why are helper T-cells required in an immune attack?

· What are complements?

· What remains in the body after an immune battle?

· How does the HIV virus disrupt the immune system?

c. Go to the Immune System Overview: <http://www.niaid.nih.gov/topics/immuneSystem/Pages/overview.aspx>

· What are the two major classes of lymphocytes?

· In what part of the body are they found?

· What are the functions of antibodies?

· What are the two types of T lymphocytes? What do they do?

· How do antibodies get produced in mass quantities?