

Grade 10, 11, 12

Distance Learning Module 8: Week of: May 26th – May 29th

Science: Anatomy and Physiology *Modified from [Unit #5 - Immune System](#)*

Targeted Goals from Stage 1: Desired Results

Content Knowledge:

1. Viruses and bacteria have different structures and processes, which has implications for the immune system as well as medical treatment and prevention approaches.
2. The major structures of the Immune System are: complement proteins, granulocytes, macrophages, dendritic cells, helper T cells, Killer T cells, B cells, plasma cells, and memory B cells. All of which work together and have specific structures that allow them to function in protecting the body from infection.
3. The immune system is responsible for allowing a person's body to fight off a viral or bacterial infection.
4. The human body has nonspecific defenses against infection.
5. Students will know the cause, symptoms, treatment, and relevant statistics associated with an infectious disease of choice (either bacterial or viral).
6. People who are immunocompromised can suffer and die from infections that typically do not severely impact the health of people with immune systems that are not compromised.

Vocabulary:

Pathogen, Capsule, Cell Wall, Plasma Membrane, Bacterial Chromosome, Ribosomes, Pilli, Binary Fission, Envelope, Capsid, Antigens, DNA/RNA, Lytic cycle, Portal of entry, Complement System, Granulocytes, Macrophages, Dendritic cells, Helper T cells, Killer T cells, Plasma Cells, Memory B Cells, Antigen, Antigen Presentation

Skills:

Conduct research to investigate, model, and communicate detailed information about a body system.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Students will begin the creation of a model depicting the various stages of the immune system's response to a pathogen. They will use the results of their research to accomplish this task.	Immune System Model Requirements	
Tuesday: Students will continue working on their model of the immune system.	Immune System Model Requirements	Formal Check-in: Students will upload pictures of their model to Google Classroom as proof of their progress.
Wednesday: Students will continue working on their model of the immune system	Immune System Model Requirements	
Thursday: Students will finish their model of the immune system.	Immune System Model Requirements	Formal Check-in: Students will upload pictures of their finished model to Google Classroom before the end of the day.
Friday: Students will begin to put their research information and pictures of their model into their Anatomy and Physiology website.	Website requirements will be listed in the Google Classroom assignment.	

Week's criteria for success (attach student checklists or rubrics): The "Immune System Model Requirements" document is the checklist students should use to gauge their progress. All other criteria for success will be posted in the text of the Google Classroom assignments.

Supportive resources and tutorials for the week (plans for re-teaching): The teacher will hold live video help sessions Monday, Tuesday, Thursday, and Friday.