

**Immaculate Conception High School**  
**Summer Assignment**  
**Anatomy and Physiology**

\* Email Ms. Lusamba if you have any questions: [plusamba@ichspride.org](mailto:plusamba@ichspride.org)

**Direction:** This assignment consists of three parts, each of which addresses a selected system of the human body you will encounter throughout the year. Complete the entire summer assignment by Wednesday September 04, 2019. Share all documents with Ms. Lusamba by the due date when completed.

You will investigate one (1) of the Systems of Human Body and write a 10-15 page research paper following the 3-part guidelines below. This is an investigative research paper where you are the Lead Investigator reporting on your findings. The results of your findings will assist the Board Members at the New Jersey Department of Health create new Treatment Centers for diseases affecting body system of your choice.

**Note: Each student must email me the choice of the body system he or she will investigate by June 30th 2019**

Below is a list of the Main Systems of the Human Body

- The Circulatory System
- The Digestive and Excretory Systems
- The Endocrine System
- The Integumentary or Exocrine System
- The Immune and Lymphatic Systems
- The Muscular System
- The Nervous System
- The Renal and Urinary Systems
- The Reproductive Systems
- The Respiratory System
- The Skeletal System

**Part 1: Overview of the Body System**

- Define the system
- Briefly state the organs involved in the functioning of this system. How many organs in total are involved?
- How does the system relate to the rest of the body?

**Part 2: System functions in the body and how it works with other systems in the body**

You will investigate and write about:

- All the organs of the body that are involved in the function of the system
- The “parent” organ and its anatomy. What are the parts of the organ? How does the organ work on its own? How does it work with other organs? (eg: for the circulatory system, the parent organ would be the heart)
- Include a labeled diagram of the organ
- How does the organ respond to brain signals?

### **Part 3: Defects/Malfunction/Diseases of the Body System**

- What happens when the “parent” organ malfunctions?
- What are ten common diseases that affect the system?
- Write a paragraph about each condition

Below is a list of sources to assist you in getting started with your research. This is NOT a “References” page. Your reference page should include the name of the author/authors, the title of the article, the date the article/book/magazine was published, the publisher (if applicable)

Useful Sites:

<https://www.betterhealth.vic.gov.au/health/conditionsandtreatments/circulatory-system>

<https://www.heart.org>

Contains links to articles and peer-reviewed journals:

<https://www.acls.net/study-guide-body-systems.htm>

<https://www.fi.edu/heart/how-you-body-is-like-a-factory>