## Summer Preparation for Anatomy and Physiology

This completed assignment is due the first day of class. There will be an assessment on this material the first week of class.

**Web resources** – Use the following resources to complete this assignment. Other resources are available online with a basic search of terms. Also, books on Anatomy and Physiology are available to borrow from the public library or for purchase at local or online stores.

<u>CrashCourse A&amp;P Video Intro</u> – covers many of the terms in this assignment
Pearsons Chapter 1 Into to A&P – matching, fill in the blank, and labeling practice
GW Learning Health Sciences - use Chapter 1, Lessons 1.1 and 1.2 which include flash cards, crossword
puzzles, vocabulary games, matching activities, and self-assessments
<u>Cliff Notes Introduction to Anatomy and Physiology</u> – Overview of key terms



3. Describe how anatomy and physiology are interrelated (complementarity of structure and function).

4.	4. Below are the different levels of structural organization that make up the human body, define them an explain their relationships.						
	a.	Chemical i. Atoms					
		ii. Molecules					
	b.	Cellular					
		i. Organelles					
	c.	Tissue					
	d.	Organs					
	e.	Organ Systems					
	f.	Organism					

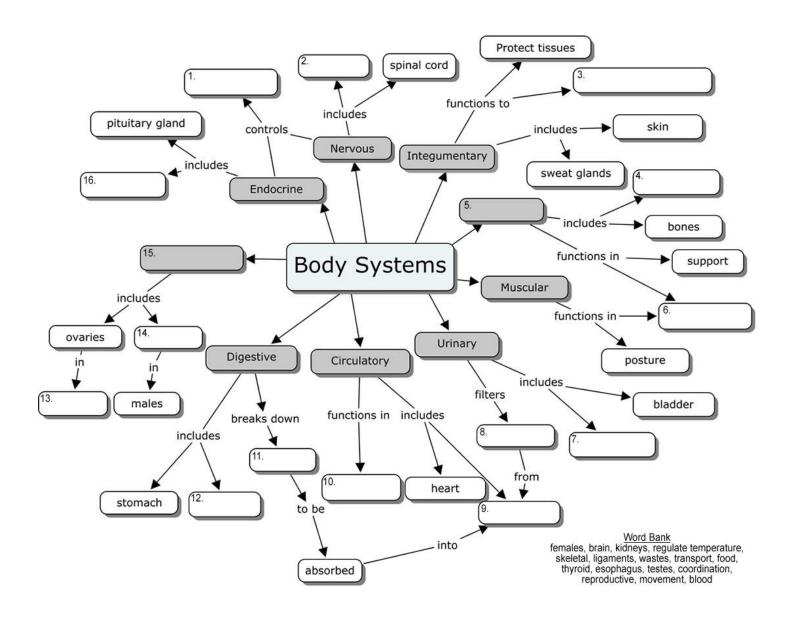
5.	Construct a diagram with your drawings that shows the different levels of structural organization of the human body and how they are related.						

Maintain boundaries	Metabolism
Movement	Excretion
Movement	Excletion
Responsiveness	Reproduction
Digestion	Growth
-	

6. Define the following characteristics necessary to maintain life in humans. Along with each definition

7. Define homeostasis.
8. Explain how the receptor, control center, and effector work together to maintain homeostasis.
9. What is the anatomical position?
10. Watch the video found on the following website. Write about the various systems of the body and their relationship with each other and with the outside world. The Body Relationship to the Outside World
<ul><li>11. For anatomical studies, the body is often cut along various planes.</li><li>a. Sagittal plane</li></ul>
b. Parasagittal plane
c. Frontal plane
d. Transverse plane

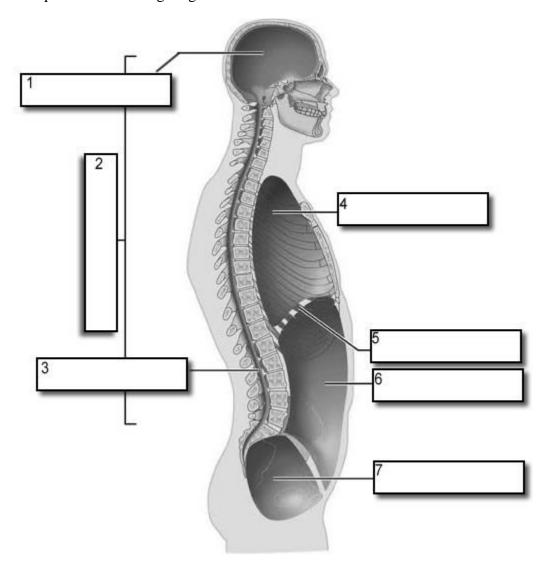
	are the 11 organ systems of the body; identify their major components, and briefly explain the functions of each system.
	Integumentary system
b.	Skeletal system
c.	Muscular system
d.	Nervous system
e.	Endocrine system
f.	Cardiovascular system
g.	Lymphatic system/Immunity
h.	Respiratory system
i.	Digestive system
j.	Urinary system
k.	Reproductive system
	i. Male
	ii. Female



## 14. Complete the following chart of directional terms.

Term	Definition	Example
Superior		
Inferior		
Anterior		
Posterior		
M P 1		
Medial		
Lateral		
Proximal		
Distal		
Superficial		
_		
Deep		

## 15. Complete the following diagram.



 $Image\ from\ \underline{http://www.biologycorner.com/anatomy/intro/BodyCavity2\_label.jpg}$ 

16. Using the	e diagram	above,	what are	organs	found in	each	of the	designated	body o	cavities?
1.										

- 2.

3.

- 4.
- 5.
- 6.
- 7.