

**Class Name:** Human Anatomy

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Office Hours: Weekdays at 10am-11am and 2pm-3pm

**Assignments for the weeks of 4/2/2020 – 4/30/2020**

### **ASSIGNMENT 1**

**Instruction:** Ch 8 Special Senses (complete within 5 days)

- **Option 1** – Read Chapter 8 in your textbook or the information about the Special Senses in an online textbook.
- **Option 2** – Internet Activities.
  1. On the SHS school website, click on Class Webpages. Scroll down and click on Callahan, Ellen.
  2. Scroll down and on the left side of the screen, click on the Ch 8 Special Senses link.
  3. On the new page, click on the Animations link. Select from the list to view videos explaining 1) the eye and vision, 2) the ear, hearing, and balance, 3) smell, 4) taste. Close that tab and return to the Anatomy Ch 8 webpage.
  4. Scroll down and right click on the Eye and Ear Labeling Practice I link, open in a new window. In the new window, scroll down to the section labeled Eyes and Ears. Complete the exercises. Click the back button as you complete each one to select the next exercise. Close that tab and return to the Anatomy Ch 8 webpage.
  5. Scroll down and right click on the Labeling Practice II link, open in a new window. Scroll down to The Special Senses section. Complete the labeling activities. Close that tab and return to the Anatomy Ch 8 webpage.
  6. Complete the labeling activities found on the Ear Structures AND Eye Structures links. Close that tab and return to the Anatomy Ch 8 webpage.
  7. Click on the Ear and Hearing AND Eye Structures and Vision links to watch animations of vision and hearing.

**Required Work:** Choose ONE assignment from the options below. (*Email work to the teacher or submit on Teams.*)

- **Option 1** – Go to the class webpage (<https://sc01916099.schoolwires.net/Page/6035>) and click on Ch 8 Senses on the left side of page. Scroll down to the FIRST Email Homework link. On the left side of the new window, under **Quizzes:** Complete the Chapter 19 Simple Multiple Choice. Then complete the Challenge Yourself, Animation (Quiz 1), and Animation (Quiz 2). Email results to [jrasner@dorchester2.k12.sc.us](mailto:jrasner@dorchester2.k12.sc.us). MUST pass each quiz with at least 60% to receive credit.
- **Option 2** – Complete the Review Questions in the textbook – Multiple Choice, Short Answer Essay, and Critical Thinking pages 305-307.
- **Option 3** – Write a one-page essay detailing a disorder of EACH of the special senses. You should have a total of at least four pages, one page about a vision disorder, one page about a hearing disorder, one page about a balance disorder, and one page about a smell or taste disorder. For each essay, include the following:
  1. The structures that are affected and their normal functions.
  2. In what ways they are not functioning properly.
  3. The cause(s) of the disease or disorder.
  4. The treatments to correct the problem.

**Supplementary Activities:** Follow directions in the Instruction section above to get to the Ch 8 class webpage.

- Explore the following links: Eye and Ear Surgery Videos, View Ear (Myringotomy), Optical Illusions.

### **Assessment:**

- **Option 1** – Assessments may be taken online via Quizstar.4teachers.org. How to Register:
  1. Go to <http://quizstar.4teachers.org/>
  2. Click on the yellow arrow Student Site
  3. Click on the yellow arrow Sign Up.
  4. Fill in the information and click Register.
  5. On the next page, click on the blue words Click here to search a new class.
  6. In the Class Search box, click on the drop down box next to Class #1 and select Teacher's Name.
  7. In the box next to it, type in Callahan.
  8. Click on the drop down box next to Class #2 and select Class Title.
  9. In the box next to it, type Human Anatomy Period 1 (Type the number of your period.), click Exact Match.
  10. Scroll down the results until you find your class period with Teacher Name, Ellen Callahan, next to it. Click in the box next to the Class Title.
  11. Click on the Register button.
  12. Click on the blue Classes tab to view if there are any available quizzes to take. Chapter 8 Test (You may use books, internet, notes etc)
  13. If you encounter issues, email me to reset.
- **Option 2** – Answer the essay questions below: (Email work to the teacher.)
  1. Draw and label functional structures of the 1) eye, 2) ear, 3) olfactory epithelium in the nasal cavity, and 4) tongue.
  2. Explain the process of vision. Include 1) the pathway of light, 2) the differences between distance vision and near vision (focusing far and near), 3) the photoreceptors that function in low light and different types for color vision.
  3. Explain the process of hearing. Include 1) the pathway of vibrations through the ear structures to the cochlear nerve, 2) the names and locations of the fluids within the cochlea.

4. Explain the process of maintaining balance. Include 1) the structures involved with static equilibrium, 2) an explanation of the what happens when your head position changes in relation to the pull of gravity, 3) the structures involved with dynamic equilibrium, 2) an explanation of the what happens when your head position changes when you are in motion.

## **ASSIGNMENT 2**

**Instruction:** Ch 10 Blood (complete within 5 days)

- **Option 1** – Read Chapter 10 in your textbook or the information about Blood in an online textbook.
- **Option 2** – Internet Activities.
  1. On the SHS school website, click on Class Webpages. Scroll down and click on Callahan, Ellen.
  2. Scroll down and on the left side of the screen, click on the Ch 10 Blood link.
  3. On the new page, click on the Animations link. Select from the list to view videos about the types of blood cells, hemostasis, and blood typing. Close that tab and return to the Anatomy Ch 10 webpage.
  4. Scroll down and right click on other links to learn more about blood. Be sure to try the Blood Typing Game.

**Required Work:** Choose ONE assignment from the options below. (Email work to the teacher or submit on Teams.)

- **Option 1** – Go to the class webpage (<https://sc01916099.schoolwires.net/Page/6035>) and click on Ch 10 Blood on the left side of the screen. Scroll down to the FIRST Email Homework link and complete all quizzes. MUST pass (60%) each quiz.
- **Option 2** – Complete the Review Questions in the textbook pg 354-355 – Mult Choice, Short Essay, Critical Thinking.
- **Option 3** – Write a three-page essay describing the functions of red blood cells and EACH of the five white blood cells.

**Supplementary Activities:** Explore additional links on the Ch 10 class webpage.

**Assessment:**

- **Option 1** – Assessments may be taken online via Quizstar.4teachers.org.
- **Option 2** – Answer the essay questions below: (Email work to the teacher.)
  1. Explain the major steps of hemostasis.
  2. Explain what an antibody is and what an antigen is with regard to blood types.
  3. Explain which antibodies AND antigens are associated with Type A, Type B, Type AB, and Type O blood.
  4. Explain what causes blood transfusion reactions when given the wrong type of blood.

## **ASSIGNMENT 3**

**Instruction:** Ch 12: Lymphatic, Immune System (complete within 5 days)

- **Option 1** – Read Chapter 12 in your textbook or the information about the Lymphatic, Immune System in an online textbook.
- **Option 2** – Internet Activities.
  1. Go to the Summerville High School webpage. <https://sc01916099.schoolwires.net/Domain/1895>
  2. On the SHS school website, click on Class Webpages. Scroll down and click on Rasner,Jason.
  3. Scroll down and on the left side of the screen, click on the Ch 12: Lymphatic System link.
  4. On the new page, click on the Animations link. Select from the list to view videos explaining this body system.
  5. Go back to the Ch 12 webpage. Scroll down and click on additional links to help you understand this body system.
  6. Search Youtube for videos that explain how the Immune System works.

**Required Work:** Choose ONE assignment from the options below. (Email work to the teacher or submit on Teams.)

- **Option 1** – Go to the class webpage (<https://sc01916099.schoolwires.net/Page/6035>) and click on Ch 12: Lymphatic System on the left side of the screen. Scroll down and click on the FIRST Email Homework link. On the left in the new window, under **Quizzes**, click on each quiz that is listed in the webpage instructions to complete the assignment. (Min 60% on each)
- **Option 2** – Complete the Review Questions in the textbook – Multiple Choice, Short Answer Essay, and Critical Thinking pages 433-435.
- **Option 3** – Watch the movie Osmosis Jones. Complete the Osmosis Jones Video Questions found on the class webpage.

**Supplementary Activities:**

- Explore the additional links on the Ch 12 webpage about allergies and infectious diseases, such as the coronavirus.

**Assessment:**

- **Option 1** – Assessments may be taken online via Quizstar.4teachers.org. (Must register first.)
- **Option 2** – Follow the essay prompts below: (Email work to the teacher.) Your essay needs to be a minimum of four pages.
  1. Three pages detailing the three lines of body defense:
    - a. One page or more about how the skin and mucous membranes (first line of defense) provide protection.
    - b. One page or more about how the cells and chemicals of the internal defenses protect. Include a description of at least 8 mechanisms of the second line of defense. Include a detailed description of what happens during the Inflammatory Response.
    - c. One page or more about how the Immune Response (third line of defense) fights infections and provides specific immunity. Include an explanation of how antibodies are formed and how immunity is achieved.
  2. And one page explaining how vaccines work on your immune system to provide immunity.