

Human Body Systems Assignment
Integrated Science 2
Redwood High School

5/10

Name: _____

Per: _____

■ **Background**

In the disease project we looked at the various types of pathogens that are responsible for causing disease in humans. In this project we will investigate the impact that disease has on a particular human body system. In order to understand this impact, it is important for us to know the normal anatomy and physiology of the body system that is affected by the particular disease.

■ **Procedure**

Each student will be assigned to a group of 8 students. Each group will be assigned a body system and two diseases that affect that body system. Within each group, students will have the following roles:

- 2 students will draw the scaled model
- 2 students will make the quiz and answer key
- 2 students will research the diseases (one per student)
- 2 students will research the anatomy and physiology of the body system.

Circle the body system and diseases your group was assigned:

- | | | |
|---------------------------------|---------------------------|-----------------|
| Skeletal System | Digestive System | Immune system |
| • Osteoporosis and Brittle Bone | • Appendicitis and Ulcers | • Lupus and HIV |

Each group will be responsible for the following:

1. A life size, scaled model of the assigned body system. This will be drawn inside the outline of the human body.
2. A 10-15 minute presentation that covers the following information:
 - anatomical features – the names and descriptions of all major organs and structures
 - physiology – the main function of the system and the specific functions of individual organs
 - description of each disease and its impact on the body system
3. An assessment: provide a quiz that has 10 multiple-choice questions about your presentation. Include an answer key.
4. Background research: A bibliography containing a minimum of 3 resources relating to your body system. One resource may be your textbook.
 - Skeletal System - pgs. 915-919
 - Digestive System - pgs. 972-978
 - Immune System - pgs. 1030-1036

List at least two additional sources below in correct bibliographic format:

■ Questions

1. What is the name of your assigned body system?

2. List the main anatomical structures that make up your assigned body system

3. For each of the anatomical structures listed above, write a complete description.

3. Which two diseases were you assigned?

4. For each disease, write a description of the cause, symptoms, and treatment options available.

Disease_____

Cause_____

Symptoms_____

Treatment Options_____

Disease_____

Cause_____

Symptoms_____

Treatment Options_____