

ATTENTION ALL MAJOR BODY SYSTEMS!!!

This letter is to let you know that our company, *Body by Design*, has to down-size due to the budget cuts. Unfortunately this means lay-offs. Every system is being considered for elimination. No system is safe.

The *Body by Design* board of directors will be conducting interviews for each of the major human body systems. You will need to create a presentation to the board convincing them of your importance in the company. Follow the directions below to create your presentation. **The deadline is January 27th!!!**

Good Luck to each and every system,

Body by Design Corporation

1. Use the approved links below to gather the information needed to plead your case. Use a concept map or chart to help organize all of your information.
 - **Person 1:**
 - **Identify** at least three major characteristics of your system.
 - **Describe** your main function as a human body system.
 - **Person 2, 3, and 4:**
 - **Divide up and identify** the organs and functions of those organs in your system.
 - **All:**
 - **Infer what would happen** to the other systems in the company **if** you were to be eliminated. What would happen to *Body by Design*?
2. **Research** a variety of diseases that commonly attack your system and **choose TWO** of those diseases and...
 - **Person 1 and 2** Disease #1 **Person 3 and 4** Disease #2
 - **Identify** the scientific and common name of your disease
 - **Identify and describe** the human body system or systems affected by the disease, does it affect specific organs within the system or the system as a whole?
 - **Advanced Students Only: Describe** the disease, include whether it is bacterial or viral, and the stages and causes of the disease
3. Prepare a presentation that informs the public of all of your research. Choose one or a combination of ideas below. If your group would like to do something other than what is listed, meet with me to discuss the possibility.
 - a.
 - b. PowerPoint presentation- **On level Only**
 - i. Must contain at least 10 informational slides, one title slide with names, and one slide for work cited
 - ii. No more than 10 words per slide
 - iii. Slides must have color and no more than one graphic per page
 - iv. Animation is optional, and must not distract from information being presented
 - v. Presentation should include everyone in group
 - c. Podcast/video/Webcam
 - i. Turn in written plan or story board with project
 - ii. You will need to arrange your own video recorder/webcam
 - iii. Must cover important information, graphs, timelines, analysis, predictions, etc.
 - d. Tri-fold board
 - iv. Must include everyone in group
 - i. Follow the format provided on where to put your information
 - ii. Information should be typed
 - iii. Any pictures from Internet must have proper credits
 - iv. Work cited should be on the back
 - e. Newscast/News Report/Press Conference
 - i. Must address the who, what, where, when, why, and how of the topic
 - ii. Script of report turned in with project, or before if performance will be live
 - iii. Must either be performed live or recorded
 - iv. Must include everyone in group
 - f. Newspaper Article
 - i. Must be informational
 - ii. Must follow standard newspaper format
 - iii. Must include pictures, graphs, timelines with captions that support the article, etc.

- iv. Must be typed - can use Microsoft Publisher 4.

Group Member

1. _____ 2. _____ 3. _____ 4.



System Researching _____

Resources:

1. Science Textbook
2. Library Books provided in class
3. Fact Monster from Information Please
 - <http://www.factmonster.com/dk/science/encyclopedia/body-systems.html>
 - This site includes Atlas, Almanac, Dictionary, Encyclopedia, Thesaurus
 - The students will use this site to access basic information about human body systems and diseases.
4. Human Illness and Behavioral Health, Copyright © 2010 Advameg, Inc.
 - <http://www.humanillnesses.com/>
 - This site contains information about Human Diseases and conditions, the nature of germs and infection, body defenses, signs and symptoms, laboratory tests, treatments, public health, and vaccination (immunization).
5. U.S. National Library of Medicine National Institutes of Health.
 - <http://www.nlm.nih.gov/>
 - The world's largest medical library for the public, health care professionals, researchers, librarians, and publishers.
6. Centers for Disease Control and Prevention
 - <https://www.cdc.gov/DiseasesConditions/>
 - This site provides users with reliable health information
7. World Health Organization
 - <http://www.who.int/en/>
 - Provides a wealth of information on global health matters
8. Kids Health
 - <https://kidshealth.org/en/kids/center/htbw-main-page.html>
 - Provides information about the systems of the human body using text, diagrams, videos, and quizzes.
9. Kids Know It Network
 - http://www.kidsbiology.com/human_biology/index.php



- Students will use this site to learn about the human body systems through music, podcasts, movies, and comics.
- Provides examples of ways the students can present their information to the class.

Human Body Systems:

Circulatory

- Heart
 - Atria and ventricles
- Blood Vessels
 - Arteries, veins, and capillaries
- Blood

Respiratory

- Nose
- Pharynx
- Larynx
- Trachea
- Bronchi
- Alveoli
- Lungs
- Diaphragm

Digestive System

- Mouth
 - Teeth, tongue, salivary glands
- Esophagus
- Stomach
- Small Intestines
- Large Intestines
- Rectum and Anus
- Liver
- Gallbladder
- Pancreas

Nervous System

- Brain
 - Cerebrum, cerebellum, brain stem
 - Spinal cord
- Nerve cells
 - Neurons, dendrites, and axons

Muscular

- Skeletal Muscles
 - Tendons
 - Cartilage
- Smooth Muscles
- Cardiac Muscles

Skeletal

- Bones
 - Joints
 - Ligaments

Excretory (Urinary)

- Kidneys
 - Urea and Urine
- Ureters
- Bladder
- Urethra

Integumentary

- Skin
 - Epidermis
 - Dermis

Immune

*includes organs from other systems as the first-line of defense against pathogens

- Skin
- Respiratory
- Circulatory
- Digestive

Advanced Body Systems Project Rubric

Criteria	Exceeding Expectations 11	Meets Expectations 9	Progressing 7	Incomplete/DNM 5
Identify characteristics	More than three major characteristics identified and described	At least three major characteristics identified and described	Less than three major characteristics identified and described	No characteristics identified
Describe main function	All main functions described with detail and examples	All main functions described	Major functions described, but lacking information	No major functions described
Identify organs	All organs in system identified and functions explained with examples	All organs in system identified; some functions explain	Some organs identified; lacking functions information	No organs identified
Interaction with other systems	Interaction with at least two other systems explained answering the question “what would happen if you were eliminated?”	Interaction with at least one other system explained answering the question “what would happen if you were eliminated?”	Interaction with other systems explained, but question not addressed	No system interactions included
Diseases identified	More than two diseases identified with scientific and common names	At least two diseases identified with scientific and common names	One disease identified with scientific and common name	No diseases identified
Diseases described	All identified diseases described in great detail; indicated whether bacterial or viral; includes stages and causes of the diseases; provide examples	All identified diseases described; indicated whether bacterial or viral, includes stages and causes of diseases	Section lacks information on disease descriptions	No additional information provided on identified diseases
Systems affected	Body systems affected by diseases identified and explained with details and examples	Body systems affected by diseases identified and explained	Section lacks information on body systems affected by diseases	No information provided on how diseases affected body systems
Presentation	All project presentation guidelines followed and exceeded; overall presentation excellent and well executed	All project presentation guidelines followed; overall presentation meets expectations	Some project presentation guidelines followed; overall presentation needs work	Project not complete; no presentation provided

Group Rubric Total: _____/88 Possible Points

Contribution Total: _____/12 Possible Points (group members will complete surveys on contributions made)

Total Score: _____/100

Body Systems Project Rubric

Criteria	Exceeding Expectations 13	Meets Expectations 11	Progressing 9	Incomplete/DNM 7
Identify characteristics	More than three major characteristics identified and described	At least three major characteristics identified and described	Less than three major characteristics identified and described	No characteristics identified
Describe main function	All main functions described with detail and examples	All main functions described	Major functions described, but lacking information	No major functions described
Identify organs	All organs in system identified and functions explained with examples	All organs in system identified; some functions explain	Some organs identified; lacking functions information	No organs identified
Interaction with other systems	Interaction with at least two other systems explained answering the question "what would happen if you were eliminated?"	Interaction with at least one other system explained answering the question "what would happen if you were eliminated?"	Interaction with other systems explained, but question not addressed	No system interactions included
Diseases identified	More than two diseases identified with scientific and common names	At least two diseases identified with scientific and common names	One disease identified with scientific and common name	No diseases identified
Systems affected	Body systems affected by diseases identified and explained with details and examples	Body systems affected by diseases identified and explained	Section lacks information on body systems affected by diseases	No information provided on how diseases affected body systems
Presentation	All project presentation guidelines followed and exceeded; overall presentation excellent and well executed	All project presentation guidelines followed; overall presentation meets expectations	Some project presentation guidelines followed; overall presentation needs work	Project not complete; no presentation provided

Group Rubric Total: _____/91 Possible Points

Contribution Total: _____/ 9 Possible Points (group members will complete surveys on contributions made)

Total Score: _____/100