AP Biology - Body Systems Presentation

You make work in groups of 1, 2, or 3 to create a presentation covering one of the following topics:

Digestive System

Circulatory System

Respiratory System

Immune System\*

Excretory System

Musculoskeletal System

Endocrine System\*

Reproductive System\*

Nervous System

\* systems are harder to find evolutionary history on

1. The system’s structure and function is described in detail in humans.
   1. Explain how the **organs** in the system **interact with each other** in order to help the entire system perform it’s function.
2. Evolutionary history of the system
   1. Includes details on FOUR specific organisms **besides humans**. The advancement and changes in the structure of the system and how that has improved the function of the system are described IN DETAIL. You are not limited to the organisms below, but they would be good examples.
      1. Calcarea (Sponges)
      2. Cnidarian (Jellyfish, hydras)
      3. Platyhelminthes (Flatworms)
      4. Nematoda (roudworms)
      5. Arthropoda (crustaceans, insects, spiders)
      6. Chordata (vertebrates)
3. Explanation of an interaction with another body system in order to maintain homeostasis.
   1. How do the systems coordinate in order to create a feedback loop to respond a change in homeostasis? The stimulus, signal, and response are indicated within the feedback loop.
4. Explanation of a disease associated with the system
   1. What is specifically going wrong with the body system at the **molecular/genetic** level and the **macroscopic** level?l
   2. Possible treatments are described. Explained HOW this cured or reduced the symptoms of the disease.
5. Effort and Creativity
6. Visuals
   1. Visuals aided in explanation of concepts. Students used visuals to enhance audience engagement and understanding. They are NOT just flashed on the screen to earn points
7. 2 sample test questions
   1. Test questions are emailed to Mr. O’Connor BEFORE the presentation.
   2. Test questions are reviewed with the audience.
8. Sources
   1. 2 or more sources besides the textbook are used and listed at the end of the presentation

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|  | Shows no understanding of the concept | Shows limited understanding of the concept | Shows partial understanding of the concept | Shows excellent understanding of the concept | Points |
| The system’s structure and function is described in detail in humans | 0 | 2 | 4 | 6 | \_\_\_\_ / 6 |
| Evolutionary history of the system | 0 | 3 | 6 | 9 | \_\_\_\_ / 9 |
| Explanation of an interaction with another body system in order to maintain homeostasis | 0 | 2 | 4 | 6 | \_\_\_\_ / 6 |
| Explanation of a disease | 0 | 3 | 6 | 9 | \_\_\_\_ / 9 |
| Effort and Creativity | 0 | 1 | 2 | 3 | \_\_\_\_ / 3 |
| Visuals | 0 | 1 | 2 | 3 | \_\_\_\_ / 3 |
| 2 sample test questions | 0 | 1 | 2 | 3 | \_\_\_\_ / 3 |
| Sources | 0 | 1 | 2 | 3 | \_\_\_\_ / 3 |

\_\_\_\_\_ / 42 Point

Human Anatomy Helpful Websites:

BBC Human Body:

<http://www.bbc.co.uk/science/humanbody/>

National Geographic Human Body:

<http://science.nationalgeographic.com/science/health-and-human-body/human-body/>

Human Body Online:

<http://www.innerbody.com/htm/body.html>

Animal Diversity Web. University of Michigan, University of Michigan Museum of Zoology.

<http://animaldiversity.org/>

The Electronic Zoo.

<http://netvet.wustl.edu/ssi.htm>

Visible Human Project:

<http://www.nlm.nih.gov/research/visible/visible_gallery.html>

Bio Ed Online:

<http://www.bioedonline.org/slides/slide01.cfm?tk=5>

Visible Body:

<http://www.visiblebody.com/>

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