



Human Body Web Quest

<http://teacherweb.com/WI/YWGlobalCareerAcademy/science/index.html>

Introduction

You are going to take an amazing journey through the human body! You will explore how your magnificent body functions from tip to toe. The first stop will be in your head. You will learn how your eyes, ears, nose and mouth allow you to be aware of your surroundings. Then, you will move to the heart and lungs followed by the digestive system. Finally, you will end your journey by learning about the muscles and bones. Prepare yourself to be completely fascinated by the workings of your amazing body!

Task

Your journey through the human body will allow you to develop a better understanding of how your body works. You will answer five questions after studying each of the different areas (senses, heart and lungs, digestive system, and muscles and bones).

Process

To successfully complete your journey, you must follow the steps listed below.

1. Read the following "Quest"ions you will need to answer in your foldable.
2. Review the questions for each section before reviewing your notes from class, reading your text book, or visiting any web sites.
3. You may work with a partner or group of three to find the answers, but **you are responsible for completing your own foldable**. All answer should be written in complete sentences using domain-specific vocabulary and using part of the question in your answer.
4. After completing the web quest, share your answers with your classmates before submitting your foldable for grading.

"QUEST"ions for the Human Body Web Quest:

Senses: sight, smell, touch, taste and hearing.

1. Approximately 150 million light-sensitive cells called rods and cones are found in the retina of your eye. What are the functions of the rods and cones? How are they different?
2. The sense of smell is a chemical sense. How many different smells can the average human distinguish?
3. Humans have special nerve cells, called receptors, which allow us the sense of touch. Which areas of our body are the most sensitive?
4. What are the four main basic kinds of taste our taste buds can recognize?
5. Vibrations in the air are funneled into your ear canal by your outer ear. What is the cochlea, and what is its role in helping you hear sounds?

Heart and Lungs:

1. What is the largest vein in your body, and what does it do?
2. How large is the average human adult heart?
3. How many times a minute does the average heart beat?
4. What causes our heart to make the lub-dub sound?
5. The human heart has two sides, which are separated by a thick muscular wall. How many chambers are in our heart and what are they called?

Digestive System:

1. What are the main organs that make up the digestive system?
2. Where and how does digestion start in your body?

3. How do nutrients absorbed in the small intestine get into blood?
4. What is the difference between the large intestine and the small intestine?
5. Approximately how many hours does it take for the stomach to process a meal?

Muscles and Bones:

1. What are the main functions of the skeletal system?
2. What is the stretchy tissue that connects bones and muscles called?
3. Muscles are divided into three groups. What are they, and how do they differ?
4. What is the difference between voluntary muscles and involuntary muscles?
5. How many bones are in your foot and toes?

Resources

Study Jams – “The Human Body”: <http://studyjams.scholastic.com/studyjams/jams/science/index.htm>
 Discovery Kids – Your Circulatory System: <http://discoverykids.com/articles/your-cardiovascular-system/>
 Discovery Kids – Your Digestive System: <http://discoverykids.com/articles/your-digestive-system/>
 Discovery Kids – Your Muscular System: <http://discoverykids.com/articles/your-muscular-system/>
 Brainpop lessons in class – take notes!
 Science text book

Rubric

Category	10 – Outstanding!	9 – Great Job!	8 – Nice Work!	7 – Let’s work on this.
Quality of Assignments	Assignments were neat and grammatically correct. Answers were complete and factual.	Assignments were neat and met requirements without more than two errors or incorrect answers.	Assignments were not complete and/or more than three answers were incorrect.	Assignments were sloppy, contained many grammatical errors and answers were not complete.
Internet Use	Accessed the Internet links and obtained the information effectively.	Accessed the Internet links but had some difficulty navigating the sites.	Had difficulty accessing links and difficulty navigating sites.	Was unable to access links and/or navigate sites without constant assistance.
Working in Groups	Contributed and assisted group in problem solving. Offered insights to class discussions.	Contributed some to group activities and class discussions.	Did not contribute when working with group or in class, but did not cause conflicts.	Did not work well with group members, did not contribute and caused conflicts.
Timeliness of all assignments	Completed all required assignments on time.	Completed most assignments on time.	Assignments were 2-3 days late.	Assignments were one week late.
Overall Performance	Went beyond requirements, was enthusiastic and assisted fellow classmates.	Followed most instructions, completed assignments and showed some interest.	Followed some instructions, work was incomplete and showed little interest.	Did not follow instructions, showed no interest in subject and did not complete unit requirements.
Student Name:			Total Score: /50	

Comments