

Human Body Quest

(Modified from www.sciencespot.net activity)

System: _____

Your job is prepare a presentation to educate your classmates about one of the body systems that makes up the human body. Your presentation must include the following requirements:

Part 1: Introduction

Tell the name of your organ system and describe the major functions.

Part 2: Diagrams

Provide diagrams of your body system with the major parts or organs labeled with their name and functions (separate slides).

Part 3: Teamwork

Explain how your body system works with others in the body.

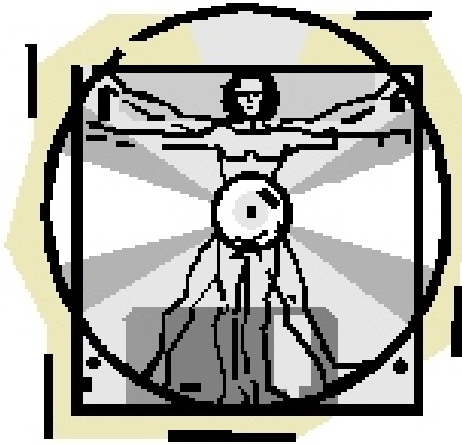
Part 4: Disorders

Describe 2 disorders associated with your body system (identify the symptoms, statistics and treatments)

Part 5: Fun Facts

Find 5 facts about your body system or its parts.

- You may use textbooks, reference materials, or online resources to research
- You will be allowed four class periods to create a Slide Show presentation and fill-in-the-blank worksheet with a diagram of your system.



Project Checklist

Use this worksheet to help you earn an A+ on your project!

Introduction

- Did you provide the name of your organ system?
- Did you give descriptions of the major functions of your system?

Diagram

- Did you provide a diagram of your body system with the major parts or organs labeled?
- Did you give descriptions of the functions of each organ/part?

Teamwork

- Did you share examples and give descriptions of interactions with other body systems?

Fun Facts

- Did you provide five facts (or more) about your body system or its parts?

Disorders

- Did you describe at least 2 disorders?

Other Information

- Did you include all the information listed on your Body System Checklist?

Worksheet

- Did the worksheet include a diagram and the functions of each part of the body system?

Presentation

- Did you have at least 9 slides (counting the title slide)
- Did the slides enhance the presentation? Don't put in too much fancy stuff or use too many words on each slide. Keep it simple! You must talk during the presentation, so use that time to share the details.
- Was the information presented in an organized manner?
- Did you "know" the information?
- Did you present to the class? Don't talk to the screen!
- Did you practice? Be sure to run through your presentation a few times before you present to the class!

Body System Checklist - Circulatory System

Major functions of circulatory system

Diagrams that include the major parts - heart, artery, vein, capillary - and list the function(s) of each.

Describe each of the components of blood- red blood cells, white blood cells, platelets, & plasma

Describe the path blood travels through your body

Explain how your body system works with other systems in the body. You will need at least 3 examples.

Find 4 facts about your body system. You may list the facts as sentences or use them to create trivia questions.

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Body System Checklist - Respiratory System

Major functions of respiratory system

Diagrams that include the major parts - trachea, lungs, diaphragm, epiglottis, larynx, vocal cords - and list the function(s) of each.

Describe the “breathing” process.

Explain how your body system works with other systems in the body. You will need at least 3 examples.

Find 4 facts about your body system. You may list the facts as sentences or use them to create trivia questions.

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Body System Checklist - Nervous System

Description and major functions of the central nervous system and peripheral nervous system.

Diagrams that include the major parts - brain, spinal cord, nerves, and neurons - and list the function(s) of each.

Describe the path a nerve impulse travels throughout your body from stimulus to response.

Explain how your body system works with other systems in the body. You will need at least 3 examples.

Find 4 facts about your body system. You may list the facts as sentences or use them to create trivia questions.

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Body System Checklist - Excretory System

Major functions of excretory system

Diagrams that include the major parts - lungs, kidneys, urinary bladder, ureter, urethra, liver, and skin - and list the function(s) of each.

Explain how your body system works with other systems in the body. You will need at least 3 examples.

Find 4 facts about your body system. You may list the facts as sentences or use them to create trivia questions.

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Body System Checklist - Digestive System

Major functions of digestive system

Diagrams that include the major parts - mouth, esophagus, stomach, small intestine, liver, pancreas, and large intestine - and list the function(s) of each.

Describe the path food travels throughout the digestive system.

Explain how your body system works with other systems in the body. You will need at least 3 examples.

Find 4 facts about your body system. You may list the facts as sentences or use them to create trivia questions.

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Body System Checklist - Immune System

Major functions of immune system

List the functions of each part of the immune system - thymus, white blood cells, antibodies, epidermis, cilia, mucus, and saliva. (Include diagrams and pictures)

Explain how vaccinations work and give three examples of diseases that are prevented through the use of vaccinations.

Explain how your body system works with other systems in the body. You will need at least 3 examples.

Find 4 facts about your body system. You may list the facts as sentences or use them to create trivia questions.

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Body System Checklist - Skeletal System

Major functions of skeletal system

Diagrams that include the major parts -bones, ligaments, and tendon - and list the function(s) of each.

NOTE: A diagram should also include the following bones in the body: cranium, clavicle, humerus, scapula, sternum, rib, vertebra, ulna, radius, carpals, metacarpals, phalanges, pelvis (may list parts), femur, patella, tibia, fibula, tarsals, and metatarsals.

Describe each of the following joints and where they are located: hinge, pivot, and ball-and-socket. You may include other joints as well.

Explain how your body system works with other systems in the body. You will need at least 3 examples.

Find 4 facts about your body system. You may list the facts as sentences or use them to create trivia questions.

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Body System Checklist - Muscular System

Major functions of muscular system

Describe the function and locations of each type of muscle - skeletal muscle, smooth muscle, and cardiac muscle

Diagrams that include the major muscles in the body - biceps, oblique abdominis, sartorius, deltoid, orbicularis oculi, sternomastoid, gastrocnemius, pectoral, temporalis, gluteus maximus, quadriceps, tibialis, masseter, rectus abdominis, and triceps

Describe how muscles work in pairs to make parts of the body move using the biceps and triceps as an example.

Explain how your body system works with other systems in the body. You will need at least 3 examples.

Find 4 facts about your body system. You may list the facts as sentences or use them to create trivia questions.

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