

BUSYBODIES QUEST

Team Members: (circle your name)

Body System:

Your team's job is to 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 function(s).

Part 2: Diagram

Provide a detailed, coloured diagram of your body system with the major parts or organs labeled.

Part 3: Model

Make a 3-D model of your body system. Make your model so it's a life-size scale. You may use any materials you wish to simulate the different parts.

Part 3: Body Teamwork

Explain how your body system works with other body systems in the body.

Part 4: Fun Facts

Find 3 interesting facts about your body system or its parts.

Part 5: Disease Research

Research a disease that is common to your body system, and its treatments.

Part 6: God's Word

Find Scripture that describes how should treat and take care of our bodies.



Each team will also be provided with a Body System Checklist of important terms or items that must be include. Teams may use their textbooks, reference materials, or online resources to research their organ system.

Go to <http://sciencespot.net/> and click the link for Kid Zone. Choose "Health & Human Body" to find links to help you!

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Project Requirements (Use this worksheet to help you complete this project.)

Information (up to 6 marks)	/6
<ul style="list-style-type: none">• Did you provide the name of your organ system (title)?• Did you give descriptions of the major functions of your system?	
Diagram (up to 6 marks)	/6
<ul style="list-style-type: none">• Did you provide a colour diagram on poster board of your body system with the major parts and organs present and labeled (legend)?	
Model (up to 6 marks)	/6
<ul style="list-style-type: none">• Did you make a creative model that is labelled of your body system?• Is it to life size scale, neatly made?	
Body Teamwork (up to 2 marks)	/2
<ul style="list-style-type: none">• Did you share two examples and give descriptions of how your body system works with other body systems?	
Fun Facts (up to 3 marks)	/3
<ul style="list-style-type: none">• Did you provide three interesting facts about your body system or its parts?	
Disease Research (up to 2 marks)	/2
<ul style="list-style-type: none">• Find a disease that relates to your body part.• Find methods of treatment currently used by doctors.	
God's Word (up to 2 marks)	/2
<ul style="list-style-type: none">• Did you find two Bible verses to how God wants us to treat our bodies?	
Summary Sheet (5 marks)	/3
<ul style="list-style-type: none">• Was the summary sheet of your organ system handed in on time?	
Neatness/Effort (subtract up to 5 marks)	-- /5
<ul style="list-style-type: none">• Was the model/poster neatly completed? Are there spelling errors?• Was there a lot of effort put into the assignment?• Did you use the checklist to make sure you have all the required information?	
References (subtract up to 5 marks)	-- /5
<ul style="list-style-type: none">• Was there proper book/Internet referencing on your poster?	
<hr/> Individual: Presentation (up to 10 marks)	/10
<ul style="list-style-type: none">• Was the information presented in an organized, creative manner?• Did you "know" the information and not need to read it word-for-word off sheet?	
Individual: Group Involvement (up to 10 marks)	/10
<ul style="list-style-type: none">• Did you share responsibilities for completing the project?• Did you work together and resolve problems peacefully?	
Total marks:	/50

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Body System Checklist - Circulatory System

- √ Description of major functions of circulatory system
- √ Model that includes the major parts.
- √ **Describe each of the components of blood - red blood cells, white blood cells, platelets, & plasma. Describe the major parts: heart, artery, vein, capillary - and list the functions of each.**
- √ **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 5 facts about your body system. You may list the facts as sentences.

Body System Checklist - Respiratory System

- √ Description of major functions of respiratory system
- √ Model that includes the major parts
- √ **Describe the major parts: trachea, lungs, diaphragm, epiglottis, larynx, vocal cords and list the functions of each.**
- √ **Describe the “breathing” process and pathway.**
- √ Explain how your body system works with other systems in the body. You will need at least 3 examples.
- √ Find 5 facts about your body system. You may list the facts as sentences.

Body System Checklist - Nervous System

- √ Description and major functions of the central nervous system and peripheral nervous system.
- √ Model that includes the major parts.
- √ **Describe the major parts: brain, spinal cord, nerves, and neurons - and list the functions 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 5 facts about your body system. You may list the facts as sentences.

Body System Checklist - Skeletal System

- √ Major functions of skeletal system.
- √ Model that includes the major parts.
- √ **Describe the major parts: Bones, ligaments, tendon. Describe at any 3 of these bones: cranium, clavicle, humerus, scapula, sternum, rib, vertebra, ulna, radius, carpals, phalanges, pelvis, femur, patella, tibia, fibula, and tarsals.**
- √ Describe these joints and where they are located: hinge, pivot, and ball-&-socket.
- √ Explain how your body system works with other systems in the body. You will need at least 3 examples.
- √ Find 5 facts about your body system. You may list the facts as sentences.

Body System Checklist - Muscular System

- √ Major functions of muscular system.
- √ Model that includes the major muscles in the body.
- √ **Describe the function and locations of each type of muscle - skeletal muscle, smooth muscle, and cardiac muscle. Describe examples of each type (ex. What type of muscles are: biceps, triceps, pectorals, abdominals, deltoids, gluteus, hamstrings, quadriceps).**

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√ 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 5 facts about your body system. You may list the facts as sentences.

Body System Checklist - Excretory System

√ Major functions of excretory system.

√ Model that includes the major parts.

√ Describe lungs, kidneys, urinary bladder, ureter, urethra, liver, and skin - and list the functions of each.

√ Describe the path substances travel throughout the excretory system.

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

√ Find 5 facts about your body system. You may list the facts as sentences.

Body System Checklist - Digestive System

√ Major functions of digestive system.

√ Model that includes the major parts.

√ Describe mouth, esophagus, stomach, small intestine, liver, pancreas, and large intestine - and list the functions 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 5 facts about your body system. You may list the facts as sentences.

Body System Checklist - Endocrine System

√ Major functions of endocrine system.

√ Describe what hormones are and what they do

√ Model that includes the major parts.

√ Describe hypothalamus, pituitary, thymus, thyroid, parathyroid, adrenals, pancreas, ovaries, and testes - and list the functions of each.

√ Describe how each of those parts helps your body to function properly, and the effects of them not functioning properly.

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

√ Find 5 facts about your body system. You may list the facts as sentences.

Body System Checklist - Immune System

√ Major functions of immune system.

√ Model that includes the major parts.

√ List the functions of each part of the immune system - thymus, white blood cells, antibodies, epidermis, cilia, mucus, and saliva.

√ Describe each "line of defense" and how they work.

√ 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 5 facts about your body system. You may list the facts as sentences.