

Names: _____

Period: _____

Human Body System Research Project

Body System:

Research this body system using the following guided research questions. You will use this information to complete your project. You must also create two additional guided questions of your own.

What is the main function of the system?	
What are the main organs/other parts of the system and what is the function of each?	

How does the system work with other systems to carry out tasks? (Give at least 2 examples.)

What are two diseases of the system and how do they affect the system?

What are at least two interesting or fun facts about the system?	
Your question #1	
Your question #2	

Additional research

- 1= the element is present but does not meet the standard described
 2= the element is present and meets the standard but needs some revision or improvement
 3= the element is present and meets or exceeds the standard and no revision is recommended

Presentation Content

0	1	2	3	Information presented is accurate, factual, & relevant
0	1	2	3	Research is in-depth and covers all identified objectives
0	1	2	3	Time, energy, effort, and enthusiasm are evident
0	1	2	3	Project shows mastery of structure and function of the system

Presentation

0	1	2	3	Student speaks clearly, audibly, and gets right to the point
0	1	2	3	Student makes eye contact with the audience throughout
0	1	2	3	Student uses visual aids in an appropriate manner

Poster

0	1	2	3	Information presented is accurate, factual, & relevant
0	1	2	3	All required parts/organs are clearly labeled
0	1	2	3	A brief description is provided for each part/organ on the poster
0	1	2	3	Each part/organ is neatly displayed
0	1	2	3	Project shows mastery of structure and function of the system
0	1	2	3	Poster is neat, colorful, and aesthetically pleasing

Citations

0	1	2	3	Content citations are clearly listed at the end of the project
0	1	2	3	Reference is clearly visible under all pictures/illustrations

Notes taken

0	1	2	3	Notes recorded using reliable & relevant resources
0	1	2	3	Student's note page is completed in full
0	1	2	3	Student developed questions are present and answered

_____ Total points/54

Circulatory system

- Major functions

- Describe each of the components of blood- red blood cells, white blood cells, platelets, and plasma
- Describe the different blood types and how they affect medical care
- Describe the path blood travels through the body
- Explain how your body system works with other systems in the body
- Describe two diseases associated with the circulatory system
- Information from your research guide
- POSTER that includes the major parts- heart, artery, vein, capillary- and list the functions of each; label and briefly explain each major part

Digestive system

- Major functions
- Describe the path food travels throughout the digestive tract
- Explain how your body system works with other systems in the body
- Describe two diseases associated with the digestive system
- Information from your research guide
- POSTER that includes the major parts- mouth, esophagus, stomach, small intestine, liver, pancreas, and large intestine- and list the functions of each; label and briefly explain each major part

Endocrine system

- Major functions
- Describe what hormones are and what they do
- Explain how your body system works with other systems in the body
- Describe two diseases associated with the endocrine system
- Information from your research guide
- POSTER that includes the major parts- hypothalamus, pituitary, thymus, thyroid, parathyroid, adrenal glands, pancreas, ovaries/testes- and list the functions of each; label and briefly explain each major part

Muscular system

- Major functions
- Describe the function and locations of each type of muscle- skeletal muscle, smooth muscle, and cardiac muscle
- Describe how muscles work in pairs to make parts of the body move
- Explain how your body system works with other systems in the body
- Describe two diseases associated with the muscular system
- Information from your research guide
- POSTER that includes 8-10 muscles (at least one of each muscle type), tendons, or ligaments; label and briefly explain each major part

Nervous system

- Major functions

- Describe the path a nerve impulse travels throughout the body from stimulus to response
- Explain how your body system works with other systems in the body
- Describe two diseases associated with the nervous system
- Information from your research guide
- POSTER that includes the major parts- brain, spinal cord, nerves, and neurons- and list the function of each; label and briefly explain each major part

Respiratory system

- Major functions
- Describe the breathing process
- Explain how your body system works with other systems in the body
- Describe two diseases associated with the respiratory system
- Information from your research guide
- POSTER that includes the major parts- trachea, lungs, diaphragm, epiglottis, larynx, vocal cords- and list the functions of each; label and briefly explain each major part

Skeletal system

- Major functions of the skeletal system
- Explain how your body system works with other systems in the body
- Describe two diseases associated with the skeletal system
- Information from your research guide
- POSTER that includes the major parts- bones, ligaments, and tendons- and list the functions of each; make sure to include the cranium, clavicle, humerus, scapula, sternum, rib, vertebra, ulna, radius, carpals, metacarpals, phalanges, pelvis, femur, patella, tibia, fibula, tarsals, metatarsals; label and briefly explain each major part

Lymphatic system

- Major functions
- Describe the path of lymph throughout the body
- Explain how your body system works with other systems in the body
- Describe two diseases associated with your body system
- Information from the research guide
- POSTER that includes the major parts- tonsil, thymus, spleen, lymph nodes, lymphatic vessels- and list the functions of each

Integumentary system

- Major functions
- Describe why you need skin
- Explain how your body system works with other systems in the body
- Describe two diseases associated with the integumentary system
- Information from the research guide
- POSTER that includes the major parts- epidermis, dermis, hair follicles, nails- and list the functions of each; label and briefly explain each major part