The Human Body

Circulatory, Digestive, Nervous, Respiratory, Skeletal, Muscular, Excretory and Immune Systems

Name: ___________________    Hr. ______
Human Body I Can Statements

_____ I can describe the basic functions of the eye.

_____ I can identify the basic parts of the eye.

_____ I can describe the basic functions of the ear.

_____ I can identify the basic parts of the ear.

_____ I can describe the basic functions of the circulatory system.

_____ I can identify the basic parts of the circulatory system.

_____ I can describe the basic functions of the respiratory system.

_____ I can identify the basic parts of the respiratory system.

_____ I can describe the basic functions of the nervous system.

_____ I can identify the basic parts of the nervous system.

_____ I can describe the basic functions of the skeletal system.
_____ I can identify the basic parts of the skeletal system.

_____ I can describe the basic functions of the muscular system.

_____ I can identify the basic parts of the muscular system.

_____ I can describe the basic functions of the excretory/ integumentary system.

_____ I can identify the basic parts of the excretory/ integumentary system.

_____ I can describe the basic functions of the digestive system.

_____ I can identify the basic parts of the digestive system.

_____ I can describe the basic functions of the immune system.

_____ I can identify the basic parts of the immune system.

_____ I can describe how the human body systems interact with each other.
Goals

My goal for this packet is........

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

This is my goal because..........  

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

I know I have accomplished this goal when....

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________
**Human Body Vocab**

1. **Antibodies**: The proteins made by white blood cells that help destroy bacteria and viruses.
2. **Anvil**: A tiny bone that passes vibrations from the hammer to the stirrup.
3. **Artery**: A blood vessel that carries blood from the heart to the body.
4. **Atrium**: Upper chamber of the heart that receives and holds blood that is about to enter the ventricle.
5. **Auditory Nerve**: These carry electro-chemical signals from the inner ear (Cochlea) to the brain.
6. **Axon**: Long fiber that carries impulses away from the cell body of a neuron.
7. **Ball and Socket Joint**: Rounded end of one bone fits into a cup like end of another bone. Example hip or shoulder.
8. **Binocular Vision**: The coordinated use of two eyes which gives the ability to see the world in three dimensions - 3D.
9. **Bone**: Rigid connective tissue that makes up the skeleton of vertebrates.
10. **Brain**: The part of the central nervous system that is located in the skull and controls most functions in the body.
11. **Capillary**: The small blood vessels connecting arteries to veins.
12. **Cardiac Muscle**: Muscle of the heart.
13. **Central Nervous System**: The portion of the nervous system consisting of the brain and spinal cord.
14. **Cilia**: Hair-like processes from the surface of epithelial cells, such as those of the airways to the lungs that provide upward movement of mucus cell secretions.
15. **Circulatory System**: Used to transport materials throughout the body. Provides oxygen to blood and removes CO2 from blood. Provides nutrients to body tissues and remove wastes from body tissues.
16. **Cochlea**: A spiral-shaped, fluid-filled inner ear structure; it is lined with cilia (tiny hairs) that move when vibrated and cause a nerve impulse to form.
17. **Cones**: Cells in the retina that sense color. People have three types of cones, L cones that sense long wavelengths (reds, yellows), M cones that sense medium wavelengths (greens), and S cones that sense medium wavelengths (violets, blues).
17. **Connective tissue**: Tissue that holds organs in place and binds different parts of the body together

18. **Cornea**: The clear, dome-shaped tissue covering the front of the eye

19. **Dendrite**: A branch off the cell body of a neuron that receives new information from other neurons

20. **Dermis**: Second layer of skin, holding blood vessels, nerve endings, sweat glands, and hair follicles

21. **Diaphragm**: Muscle beneath the lungs that contracts and relaxes to move gases in and out of the lungs

22. **Digestive system**: Body system that breaks down food and absorbs nutrients

23. **Eardrum** - (also called the *tympanic membrane*) a thin membrane that vibrates when sound waves reach it

24. **Epidermis**: An outer layer of cells designed to provide protection

25. **Epiglottis**: Lid-like structure that covers the larynx during swallowing to prevent food from entering the airway/lungs

26. **Epithelial tissue**: A body tissue that covers the surfaces of the body, inside and out

27. **Esophagus**: A muscular tube that connects the mouth to the stomach

28. **Eustachian tube**: A tube that connects the middle ear to the back of the nose; it equalizes the pressure between the middle ear and the air outside.

29. **Excretory System**: An organ system that removes wastes and maintains water balance

30. **Farsighted** - (also called hyperopia) a condition in which distant objects are seen more clearly than nearby objects because light is focused behind the retina, not on it.

31. **Five senses**: Sight, hearing, touch, taste, smell

32. **Hair follicle**: A small organ in the dermis layer of the skin that produces hair

33. **Hammer** - (also called the malleus) a tiny bone that passes vibrations from the eardrum to the anvil.

34. **Heart**: Multi-chambered, muscular organ that pumps blood throughout the body

35. **Hemoglobin**: Iron-containing protein in red blood cells that carries oxygen for delivery to cells

36. **Hinge Joint**: A joint allowing movement in one plane. Example elbow or knee

37. **Homeostasis**: The bodies tendency to seek to maintain a condition of balance or equilibrium within its internal environment.
38. **Immune System**: The cells, tissues, and organs that protect the body from disease. Is composed of the white blood cells, bone marrow, thymus gland, spleen and other parts.

39. **Immunity**: The condition in which an organism can resist disease.

40. **Iris**: The colored part of the eye - it controls the amount of light that enters the eye by changing the size of the pupil.

41. **Kidney**: A bean-shaped organ that filters wastes from the blood and produces urine.

42. **Large intestine**: The last section of the digestive system, where water is absorbed from food and the remaining material is eliminated from the body.

43. **Larynx**: Voice box; passageway for air moving from the pharynx to the trachea; contains the vocal cords.

44. **Lens**: A crystalline structure located just behind the iris - it focuses light onto the retina.

45. **Ligament**: Strong connective tissue that holds bones.

46. **Liver**: Produces bile (help in the digestion of fats), maintains glucose levels in bloodstream, makes blood proteins to help blood clotting, and removes toxins and poisons from the bloodstream.

47. **Lungs**: Bring oxygen into the body and remove carbon dioxide and some water waste from the body.

48. **Marrow**: Soft fatty tissue that fills most bone cavities and is the source of blood cells.

49. **Motor impulse**: An impulse that travels away from the central nervous system.

50. **Mouth**: Where your tongue, teeth, and saliva change food into a soft mass called a bolus.

51. **Mucus**: A slimy substance produced in the nose and throat to moisten and protect them.

52. **Muscle tissue**: A body tissue that contracts or shortens, making body parts move.

53. **Muscular System**: The bodily system that is composed of skeletal, smooth, and cardiac muscle tissue and functions in movement of the body or of materials through the body, maintenance of posture, and heat production.

54. **Nearsighted** - (also called myopia) a condition in which nearby objects are seen more clearly than distant objects because light is focused in front of the the retina, not on it.
55. **Nerve tissue**: Contains cells with the specialized ability to react to stimuli and to conduct electrical impulses

56. **Nerve**: Bundles of neuron fibers

57. **Nervous system**: Consists of brain, spinal cord, and nerves and regulates the body’s responses to internal and external stimuli

58. **Neuron**: A nerve cell, a cell that is specialized to conduct nerve impulses

59. **Optic nerve** - (also called cranial nerve II) the nerve that transmits electrical impulses from the retina to the brain.

60. **Outer ear canal** - the tube through which sound travels to the eardrum

61. **Pancreas**: Gland that makes digestive enzymes and secretes them into the small intestine; makes the hormone insulin and glucagon and secretes them into the blood

62. **Peripheral Nervous System**: The section of the nervous system lying outside the brain and spinal cord

63. **Peristalsis**: Rhythmic muscular contractions that squeeze food through the esophagus into the stomach

64. **Pinna** - (also called the auricle) the visible part of the outer ear. It collects sound and directs it into the outer ear canal.

65. **Pivot Joint**: A joint that allows one bone to rotate around another. Example Ulna and Radius

66. **Plasma**: The colorless watery fluid of blood, suspended in it are the other parts of blood

67. **Platelet**: A cell fragment that plays an important part in forming blood clots

68. **Pupil** - the opening in the center of the iris- it changes size as the amount of light changes (the more light, the smaller the hole).

69. **Red Blood Cell**: A cell in the blood that takes up oxygen in the lungs and delivers it to cells elsewhere in the body

70. **Retina** - light-sensitive tissue that lines the back of the eye. It contains millions of photoreceptors (rods and cones) that convert light rays into electrical impulses that are relayed to the brain via the optic nerve.

71. **Reflex**: A simple, automatic response to a sensory stimulus, such as the knee-jerk response

72. **Reproductive system**: System of organs involved in producing offspring

73. **Respiration**: A single complete act of breathing in and out
74. **Respiratory System**: System responsible for taking in oxygen and releasing carbon dioxide using the lungs.

75. **Rods**: Cells in the retina that sense brightness (they are photoreceptors). Night vision involves mostly rods (not cones). There are many more rods than cones.

76. **Saliva**: The fluid released in the mouth that plays an important role in both mechanical and chemical digestion.

77. **Schwann cell**: Covers the nerve fibers in the peripheral nervous system and forms the myelin sheath.

78. **Semicircular canals**: Three loops of fluid-filled tubes that are attached to the cochlea in the inner ear. They help us maintain our sense of balance.

79. **Sensory impulse**: An impulse that travels towards the central nervous system.

80. **Skeletal muscle**: Voluntary, striated muscle that moves bones, works in pairs and is attached to bones by tendons.

81. **Skeletal System**: The bodily system that consists of the bones, their associated cartilages, and the joints, and supports and protects the body, produces blood cells, and stores minerals.

82. **Skin**: Protective covering for body, prevents bacteria etc from entering, excess water leaving.

83. **Small intestine**: Organ that completes the chemical digestion of food and absorbs the nutrients.

84. **Smooth muscle**: An involuntary muscle found in walls of internal organs such as the stomach, intestine, bladder and blood vessels (excluding the heart).

85. **Spinal cord**: The thick column of nerve tissue that links the brain to most of the nerves in the peripheral nervous system.

86. **Stirrup** - (also called the stapes) a tiny, U-shaped bone that passes vibrations from the stirrup to the cochlea. This is the smallest bone in the human body.

87. **Stomach**: Elastic, muscular sac where some chemical and some mechanical digestion take place.

88. **Subcutaneous**: Tissue below the dermis, primarily fat cells that insulate the body.

89. **Tear**: Clear, salty liquid that is produced by glands in the eyes.

90. **Tendon**: Strong connective tissue that attaches muscle to bone.

91. **Thymus**: A ductless glandular organ at the base of the neck that produces lymphocytes and aids in producing immunity.

92. **Trachea**: The windpipe, the tube that connects the larynx to the lungs.
93. **Urea**: Major nitrogenous waste product excreted in urine
94. **Ureter**: Tube that carries urine from the kidney to the urinary bladder
95. **Urethra**: Tube from the urinary bladder to the outside of the body
96. **Urinary bladder**: Sac that holds the urine
97. **Vaccination**: Method of acquiring immunity by means of injecting a weakened or partial form of an infectious agent that can induce production of antibodies but does not produce a full-blown infection
98. **Vein**: A blood vessel that carries blood from the capillaries toward the heart
99. **Ventricle**: A chamber of the heart that receives blood from an atrium and pumps it to the arteries
100. **Vitreous**: A thick, transparent liquid that fills the center of the eye - it is mostly water and gives the eye its form and shape (also called the vitreous humor).
101. **Vocal cords**: Folds of tissue within larynx that vibrate and produce sounds
102. **White Blood Cell**: A blood cell that fights disease.
103. **20/20 Vision**: Normal human vision, a condition in which a person can see a letter of a specific size from a distance of 20 feet.
Team Members: __________________ System: ____________

Your team’s job is to prepare a presentation to educate your classmates about one of the systems that makes up the human body.

Your presentation must include the following:

**Part 1: Introduction** - Name the system and then use video or activity
**Part 2: Major Function(s)** - Description of the major functions.
**Part 3: Function of parts** - These will be the same parts that you will teach to your classmates.
**Part 4: Diagram** - Same diagram that you will teach to your classmates.
**Part 5: Additional Info** - This will be other key factors you will teach.
**Part 6: Teamwork** - Explain how your body system works with at least three others systems.
**Part 7: Fun Facts** - Find 5 facts about your body system or its parts.

*Each team will also be provided with a Body System Checklist of important terms or items that must be included in the presentation. Teams may use their science reading packets, reference materials, or online resources to research their organ system.

* Each student must answer **Section Review Questions** from the reading packet that pertains to their body system. **Before students can begin to use the computers to create their presentation, they must show the teacher they have completed the section review questions.**

*Teams will be allowed three to four class periods to create their presentation and fill-in-the-blank checklist for their body system.

*The presentation must be made using Google presentations and shared with the teacher. The presentation must consist of at least 8 slides and no more than 12 slides, unless authorized by teacher.

*Due date for this project is ________________________________
RESOURCES TO USE

*Go to [http://sciencespot.net/](http://sciencespot.net/) and click the link for Kid Zone. Choose “Health & Human Body” to find links to help you with this project.

* [www.getbodysmart.com](http://www.getbodysmart.com)

* [www.google.com](http://www.google.com) --- then type in your body system for possible links.

* [www.cdc.gov](http://www.cdc.gov)


*Human Body Reading Packet.
Section 7.1 Questions – Every student completes these questions
pg 3-7 in the Human Body Readings Packet:

1. A group of similar cells that work together is known as a ________________________.

2. What are the four basic types of human tissue? _______________
   _______________
   _______________
   _______________

3. Tissues work together to form ______________________, and organs work together to form
   ______________________, all of which allow an entire ______________________ to live.

4. List the organ systems of the human body?
   _______________
   _______________
   _______________
   _______________

5. Describe the structures of the skeletal system. (3 Sentences)

6. Describe the functions of the skeletal system. (3 Sentences)

7. Describe the structures of the muscular system. (3 Sentences)

8. Describe the functions of the muscular system. (3 Sentences)

9. Describe the structures of the respiratory system. (3 Sentences)

10. Describe the functions of the respiratory system. (3 Sentences)
11. Describe the structures of the circulatory system. (3 Sentences)

12. Describe the functions of the circulatory system. (3 Sentences)

13. Describe the structures of the digestive system. (3 Sentences)

14. Describe the functions of the digestive system. (3 Sentences)

15. Describe the structures of the nervous system. (3 Sentences)

16. Describe the functions of the nervous system. (3 Sentences)

17. Describe the structures of the skin system. (3 Sentences)

18. Describe the functions of the skin system. (3 Sentences)

19. Describe the structures of the urinary system. (3 Sentences)

20. Describe the functions of the urinary system. (3 Sentences)

21. Describe the structures of the Immune system. (3 Sentences)
22. Describe the functions of the Immune system. (3 Sentences)

23. Describe how the respiratory and circulatory systems work together. (3 Sentences)

24. Describe how the respiratory, circulatory, digestive, nervous, skin, and urinary systems work together within the human body. (5 Sentences)
Body System Checklist - Eye

✓ Major functions of EYE (1)
  1. ____________________________________________________________

✓ Function of the parts of the EYE
  1. Optic nerve _________________________________________________
  2. Retina ______________________________________________________
  3. Lens _______________________________________________________
  4. Iris _________________________________________________________
  5. Pupil _______________________________________________________
  6. Cornea _____________________________________________________

✓ Eye diagram
√ Describe the parts of Retina- rods and cones
   A. Rods ____________________________________________________________
   B. Cones _________________________________________________________

√ Describe the path a sensory image travels from the environment to the brain.

√ How do the eyes works with other systems of the body? You will need at least three examples:
   1. ______________________________________________________________
   2. ______________________________________________________________
   3. ______________________________________________________________

√ 4 facts about eyes
   1. 20/20 Vision____________________________________________________
   2. Nearsighted ____________________________________________________
   3. Farsighted _____________________________________________________
   4. Binocular Vision _______________________________________________
Body System Checklist - Ear
√ Major functions of Ear (2)
1. __________________________________________________________
2. __________________________________________________________

√ Function of the parts of the Ear
1. Hammer ___________________________________________________
2. Anvil _____________________________________________________
3. Stirrup __________________________________________________
4. Outer ear canal ___________________________________________
5. Eardrum _________________________________________________
6. Pinna ____________________________________________________
7. Cochlea _________________________________________________
8. Semicircular canals ______________________________________
9. Eustachian tube __________________________________________
10. Auditory nerve __________________________________________

√ Ear diagram

√ Describe the path a sound wave travels from the outside environment to the brain.
√ How do the Ears work with other systems of the body? You will need at least three examples:

1. ________________________________
2. ________________________________
3. ________________________________

√ 4 facts about Ears

1. ________________________________
2. ________________________________
3. ________________________________
4. ________________________________
Project Checklist

Introduction
• Did you provide the name of your organ system?

Major Function(s)
• Did you give descriptions of the major functions of your system?

Functions of Parts
• Do you have the description of the functions of the parts that your classmates will be writing down during the presentation?

Diagram(s)
• Do you have the diagram your classmates will be labeling during your presentation?

Additional Info.
• Do you have the other required pathways or components for your system?

Teamwork
• Do you have at least three examples and how another system works with your system?

Fun Facts
• Do you provide four facts (or more) about your system? You may list the facts as sentences or use them to create trivia questions.

Body System Checklist
• If you do everything listed above, your presentation will follow the body system checklist. This is what your classmates fill in during your presentation. The checklist has the learning goals. Your presentation is your plan to accomplish the teaching of those goals.

Presentation
• You need at least 8 slides (counting the title/introduction slide) and may have no more than 12 (some groups have more information)?
• Make slides that enhance the learning. 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.
• Plan the presentation to follow the checklist. Your classmates will appreciate this.
• Know your information. You should know your information well enough that you do not need to read it off note cards or the slides.
• Present to the class? Don’t talk to the screen!
• Practice? Be sure to run through your presentation before you present to the class!
Presentation Planner
What will you include on each slide?
Use this page to help you organize your presentation.
Be sure to sign each group member’s name in their numbered slide

Slide 1: Intro Slide

Slide 2: 

Slide 3: 

Slide 4: 

Slide 5: 

Slide 6: 

Slide 7: 

Slide 8: 

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Body System Checklist - Circulatory System

√ Major functions of circulatory system (4)

3. ____________________________________________
4. ____________________________________________
5. ____________________________________________
6. ____________________________________________

√ Function of the heart, artery, vein and capillary.

Heart ____________________________________________
Artery ____________________________________________
Vein ____________________________________________
Capillary _________________________________________

√ Heart diagram

Heart Anatomy (interior view)

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√ Describe the parts of blood- red blood cells, white blood cells, platelets and plasma

A. Red Blood Cells
   __________________________________________________________
   __________________________________________________________

B. White Blood Cells
   __________________________________________________________
   __________________________________________________________

C. Platelets
   __________________________________________________________

D. Plasma
   __________________________________________________________

√ Using the information from the reading packet and your on-line research, describe the path blood travels through your body.

√ How does the circulatory system works with other systems? You will need at least three examples:
   1. __________________________________________________________
   2. __________________________________________________________
   3. __________________________________________________________

√ Four facts about circulatory system.
   1. __________________________________________________________
   2. __________________________________________________________
   3. __________________________________________________________
   4. __________________________________________________________
Use the information gathered from reading and online research to answer the following questions to make your presentation. **This is an assignment for your team.** This is not for your classmates to do. This is to help you learn what you will teach.

Using your reading packet pages 22-28 and your on-line research answer the following questions.

1. What are the functions of the circulatory system? ________________
   __________________________________________________________________
   __________________________________________________________________

2. Why is it important that wastes produced by the cells are carried away by the blood?
   __________________________________________________________________
   __________________________________________________________________

3. Trace the path of blood through the circulatory system? ____________
   __________________________________________________________________
   __________________________________________________________________

4. List the four chambers of the heart? ______________________________
   __________________________________________________________________

5. Describe the three types of blood vessels? ________________________
   __________________________________________________________________
   __________________________________________________________________

6. List the four components of blood? ______________________________
   __________________________________________________________________

7. What is hemoglobin? What is its function? _______________________
   __________________________________________________________________

8. Name, describe, and give the function of each of the four types of blood particle?
   __________________________________________________________________
   __________________________________________________________________
Body System Checklist - Respiratory System

✓ Major functions of respiratory system (2)

1. ________________________________________________________________________

2. ________________________________________________________________________

✓ Function of the - trachea, lungs, diaphragm, epiglottis, larynx, vocal cords.

A. Trachea __________________________________________________________________

B. Lungs ____________________________________________________________________

C. Diaphragm __________________________________________________________________

D. Epiglottis __________________________________________________________________

E. Larynx ____________________________________________________________________

F. Vocal cords __________________________________________________________________

✓ Respiratory system diagram
√ Describe the “breathing” process

√ How does the respiratory system work with other systems? You will need at least three examples:
   1. _______________________________________________________
   2. _______________________________________________________
   3. _______________________________________________________

√ Four facts about respiratory system.
   1. _______________________________________________________
   2. _______________________________________________________
   3. _______________________________________________________
   4. _______________________________________________________

Use the information gathered from reading and online research to answer the following questions to make your presentation. This is an assignment for your team. This is not for your classmates to do. This is to help you learn what you will teach.

√ Using your reading packet pages 16-21 and your on-line research answer the following questions.

1. What is the function of the respiratory system? __________________
   __________________________________________________________

2. What is respiration? _______________________________________
   __________________________________________________________
3. What are the structures of the respiratory system? What is the function of each?
   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

4. Explain how the exchange of oxygen and carbon dioxide occurs in the lungs.
   __________________________________________________________
   __________________________________________________________

5. How do you breathe? _____________________________________
   __________________________________________________________

6. When you have laryngitis, or an inflammation of the larynx, you have a hoarse
   voice, or no voice at all. How might cheering too enthusiastically at a football
   game cause laryngitis?
   __________________________________________________________
Body System Checklist - Nervous System

√ The major functions of the central nervous system and peripheral nervous system.

1. Central Nervous System __________________________________________
   ________________________________________________________________

2. Peripheral Nervous System ________________________________________
   ________________________________________________________________

√ Function of the nervous system parts: brain, spinal cord, nerve, and neuron.

   A. Brain _________________________________________________________
   B. Spinal Cord _________________________________________________
   C. Nerve _____________________________________________________
   D. Neuron _____________________________________________________

√ Diagram of a neuron.

√ Diagram of the central nervous system.
√ Describe the path a nerve impulse travels throughout your body from stimulus to response.

√ How does the nervous system work with other systems? You will need at least three examples:
   1. ____________________________________________________________
   2. ____________________________________________________________
   3. ____________________________________________________________

√ Four facts about nervous system.
   1. ____________________________________________________________
   2. ____________________________________________________________
   3. ____________________________________________________________
   4. ____________________________________________________________

Use the information gathered from reading and online research to answer the following questions to make your presentation. This is an assignment for your team. This is not for your classmates to do. This is to help you learn what you will teach.

√ Using your reading packet pages 37-44 and your online research answer the following questions.

1. What is the function of the nervous system? _____________________
   ____________________________________________________________________

2. What is neuron? Describe its structure._________________________
   ____________________________________________________________________
3. Identify the three types of neurons.

________________________________________________________

________________________________________________________

________________________________________________________

4. Describe a nerve impulse.

________________________________________________________

________________________________________________________

5. What are the two major parts of the human nervous system? What is the function of each?

________________________________________________________

________________________________________________________

6. Identify the three many parts of the brain and give their function?

________________________________________________________

7. What is the function of the spinal cord?

________________________________________________________
Body System Checklist - Skeletal System

√ Major functions of skeletal system (5)

1. ____________________________________________________________
2. ____________________________________________________________
3. ____________________________________________________________
4. ____________________________________________________________
5. ____________________________________________________________

√ Functions of bone, ligament and tendon.

A. Bone ________________________________________________________
B. Ligament ___________________________________________________
C. Tendon _____________________________________________________

√ Diagram of the skeleton.

Names
carpals
mandible
cranium
femur
fibula
humerus
metacarpals
metatarsals
patella
pelvis
phalanges
radius
rib
clavicle
sternum
tarsals
tibia
ulna
vertebra
√ Describe each of the following joints and where they are located: hinge, pivot, and ball-and-socket. You may include other joints as well.

A. Hinge
B. Pivot
C. Ball-and-Socket

√ How does the skeletal system works with other systems? You will need at least three examples:
1. 
2. 
3. 

√ Four facts about the skeletal system.
1. 
2. 
3. 
4. 

Use the information gathered from reading and online research to answer the following questions to make your presentation. This is an assignment for your team. This is not for your classmates to do. This is to help you learn what you will teach.

√ Using your reading packet pages 7-12 and your on-line research answer the following questions.

1. What are the five functions of the skeletal system? 

   
   
   
   
   

35
2. What is a ligament? A tendon? ___________________________________  
   __________________________________________________________  
   __________________________________________________________

3. List three places in your body where cartilage is found.  
   __________________________________________________________

4. What is marrow?  
   __________________________________________________________  
   __________________________________________________________

5. Compare the movements of three types of movable joints?  
   __________________________________________________________  
   __________________________________________________________  
   __________________________________________________________

6. Suggest an advantage of having the ribs attached to the breastbone by cartilage?  
   __________________________________________________________
Body System Checklist - Muscular System

✓ Major functions of muscular system (3)

1. ____________________________________________________________________

2. ____________________________________________________________________

3. ____________________________________________________________________

✓ Describe the function and location of each type of muscle - skeletal muscle, smooth muscle, and cardiac muscle.

A. Skeletal muscle ________________________________________________________
   ______________________________________________________________________

B. Smooth muscle _______________________________________________________
   ______________________________________________________________________

C. Cardiac muscle _______________________________________________________
   ______________________________________________________________________

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

√ How does the muscular system work with other systems? You will need at least three examples:
  1. _______________________________________________________
  2. _______________________________________________________
  3. _______________________________________________________

√ Four facts about the muscular system.
  1. _______________________________________________________
  2. _______________________________________________________
  3. _______________________________________________________
  4. _______________________________________________________

Use the information gathered from reading and online research to answer the following questions to make your presentation. This is an assignment for your team. This is not for your classmates to do. This is to help you learn what you will teach.

√ Using your reading packet pages 12-16 and your on-line research answer the following questions.

  1. List the three types of muscle tissue. __________________________
     __________________________
     __________________________

  2. Compare voluntary and involuntary muscle. _____________________
     __________________________
     __________________________
3. Describe how muscles work in pairs. __________________________
   _______________________________________________________

4. If your biceps were paralyzed, what movement would you be unable to make?
   _______________________________________________________
   _______________________________________________________

Body System Checklist - Excretory and Integumentary System

√ Major function of excretory system (1)

1. ______________________________________________________________

√ Functions of the major parts - lungs, kidneys, urinary bladder, ureter, urethra, liver, and skin.

A. Lungs ________________________________________________________
B. Kidneys _______________________________________________________
C. Urinary Bladder _________________________________________________
D. Ureter ________________________________________________________
E. Urethra _______________________________________________________
F. Liver _________________________________________________________
G. Skin __________________________________________________________

√ Diagram kidneys, urinary bladder, ureter and urethra

√ Diagram of skin
√ How does the excretory system work with other systems? You will need at least three examples:
1. _______________________________________________________
2. _______________________________________________________
3. _______________________________________________________

√ Four facts about the excretory system.
1. _______________________________________________________
2. _______________________________________________________
3. _______________________________________________________
4. _______________________________________________________

Use the information gathered from reading and online research to answer the following questions to make your presentation. This is an assignment for your team. This is not for your classmates to do. This is to help you learn what you will teach.

√ Using your reading packet pages 44-59 and your on-line research answer the following questions.
1. What is the function of the excretory system? __________________
   __________________________________________________________
2. What structures enable it to perform this function? ________________
   __________________________________________________________
3. What is urea? ____________________________
   __________________________________________________________
4. How is it formed? ____________________________
   __________________________________________________________
5. What is the function of a Nephron? ____________________________
   __________________________________________________________
6. What would the effect be on the human body if the Nephrons stopped working?
   __________________________________________________________
7. What is the function of the Integumentary system?

__________________________________________________________

8. Name and describe the two layers of the skin.

__________________________________________________________

__________________________________________________________

9. How does sweating help maintain Homeostasis?

__________________________________________________________

10. Suppose that it is a very hot day and you drink a lot of water. Would your urine contain more or less water than it would on a cooler day? Explain your answer.

__________________________________________________________

__________________________________________________________

11. Research Question: Once a burn or cut heals and scar tissue is formed, why does it look different?

__________________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________

12. What makes up hair and gives it color?

__________________________________________________________
Body System Checklist - Digestive System

✓ Major function of digestive system (1)

1. ____________________________________________________________________________

✓ Functions of the major parts - mouth, esophagus, stomach, small intestine, liver, pancreas, and large intestine.

   A. Mouth _______________________________________________________________________
   B. Esophagus ____________________________________________________________________
   C. Stomach _____________________________________________________________________
   D. Small Intestine __________________________________________________________________
   E. Liver _________________________________________________________________________
   F. Pancreas _____________________________________________________________________
   G. Large Intestine __________________________________________________________________

✓ Diagram of the major parts.

✓ Describe the path food travels throughout the digestive system.
How does the digestive system work with other systems? You will need at least three examples:
1. _______________________________________________________
2. _______________________________________________________
3. _______________________________________________________

Four facts about the digestive system.
1. _______________________________________________________
2. _______________________________________________________
3. _______________________________________________________
4. _______________________________________________________

Use the information gathered from reading and online research to answer the following questions to make your presentation. This is an assignment for your team. This is not for your classmates to do. This is to help you learn what you will teach.

Using your reading packet pages 29-36 and your on-line research answer the following questions.

1. Describe the process of digestion?____________________________________
   __________________________________________________________
   __________________________________________________________

2. Compare mechanical and chemical digestion.____________________
   __________________________________________________________
   __________________________________________________________

3. What is peristalsis? ________________________________________
   __________________________________________________________
   Why is it important? ________________________________________
   __________________________________________________________

4. Where does most of the digestion of food take place? _____________
5. Why are the liver and the pancreas called digestive helpers rather than digestive organs?

6. Describe the process of absorption in the small intestine.

7. What is the function of villi?

8. Describe the process of absorption in the large intestine.

9. What is the function of the rectum?

10. Anus?

11. What would the effect be of impaired pancreatic function?
Body System Checklist - Immune System

√ Major functions of immune system (3)
  1. __________________________________________________________
  2. __________________________________________________________
  3. __________________________________________________________

√ List the functions of each part of the immune system - thymus, white blood cells, antibodies, epidermis, cilia, mucus, and saliva.
  A. Thymus _____________________________________________________
  B. White blood cells ____________________________________________
  C. Antibodies _________________________________________________
  D. Epidermis __________________________________________________
  E. Cilia ______________________________________________________
  F. Mucus _____________________________________________________
  G. Saliva _____________________________________________________

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

√ How does the immune system work with other systems? You will need at least three examples:
  1. __________________________________________________________
  2. __________________________________________________________
  3. __________________________________________________________

√ Four facts about the immune system.
  1. __________________________________________________________
  2. __________________________________________________________
  3. __________________________________________________________
  4. __________________________________________________________
Use the information gathered from reading and online research to answer the following questions to make your presentation. This is an assignment for your team. This is not for your classmates to do. This is to help you learn what you will teach.

Using your reading packet pages 58-64 and your on-line research answer the following questions.

1. What is the function of the immune system? ____________________________________________

2. What are the bodies three lines of defense against invading organisms?
   ____________________________________________

3. What roles do B-cells and T-cells play in the immune system? ______
   ____________________________________________

4. What is immunity? Compare active and passive immunity? ______
   ____________________________________________

5. How do vaccines work? __________________________________________
   ____________________________________________

6. What is an allergy? __________________________________________
   ____________________________________________

7. What is an allergen? __________________________________________
   ____________________________________________

8. What is AIDS? __________________________________________
   ____________________________________________
   What causes it? __________________________________________
   How does AIDS affect the immune system? __________________
9. If someone dies from AIDS, what do they actually die of?
Exit Questions

1. ______________________________________________________________
   ______________________________________________________________
   ______________________________________________________________

2. ______________________________________________________________
   ______________________________________________________________
   ______________________________________________________________

3. ______________________________________________________________
   ______________________________________________________________
   ______________________________________________________________

4. ______________________________________________________________
   ______________________________________________________________
   ______________________________________________________________

5. ______________________________________________________________
   ______________________________________________________________

6. ______________________________________________________________
   ______________________________________________________________

7. ______________________________________________________________
   ______________________________________________________________

8. ______________________________________________________________
   ______________________________________________________________

9. ______________________________________________________________
   ______________________________________________________________

10. ______________________________________________________________