

Organization and Systems

Name: _____

1. Define organization.

2. Describe how our country is organized to maintain order.

3. What are cells?

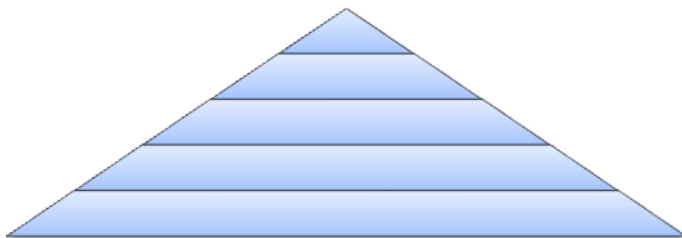
4. What are tissues?

5. A group of similar tissues working together to perform a task creates an _____.

6. A group of organs working together to perform a task creates an _____.

7. The body is formed by a group of organ systems working together to _____.

8. Label: *Organs, Tissues, Body, Cells, Organ Systems*



9. Fill in the table to describe the four types of tissues.

Tissue Type	Function	Example

10. Write out Genesis 2:7.

11. Write out Psalm 139:13-14.



12. List the eleven systems of the human body.

- a)
- b)
- c)
- d)
- e)
- f)
- g)
- h)
- i)
- j)
- k)

13. The circulatory system is responsible to transport _____.

14. The function of the circulatory system is to

-
-
-
-



15. The organs of the circulatory system include the

- Heart, which _____.
 - Arteries, which _____.
 - Veins, which _____.
 - Capillaries, which _____.
- and is where _____.

16. The group of passages that allow the exchange of gasses forms the _____.

17. The function of the respiratory system is to

-
-

18. List the organs of the respiratory system.

19. The skeletal system is formed by a combination of _____.

20. The function of the skeletal system is to

-
-

21. List the organs and tissues that form the skeletal system.

22. The groups of tissues that make your body parts move forms the _____.

23. The function of the muscular system is to

-
-

24. The organs of the muscular system include

- Smooth muscles, which are found in the _____.
- Skeletal muscles, such as those found in the _____.
- Cardiac muscles, such as those that form the _____.

25. The digestive system is formed by the group of organs that take in food and break it down into chemical forms that can be _____.

26. What is digestion?

27. List the organs that are a part of the digestive system.

28. The excretory system is formed by those organs that excrete (_____) waste from the body.

29. The organs and function of the excretory system include the

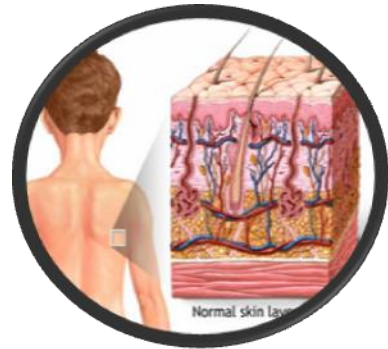
- The large intestines, which _____.
- The urinary tract, which _____.
- The Lungs, which _____.

30. The integumentary system includes those organs that

_____.

31. The function of the integumentary system is to

-
-
-



32. List the organs of the integumentary system.

33. The immune system includes those organs and tissues that

_____.

34. The function of the immune system is to fight off _____ and _____.

35. List the organs and tissues that are a part of the immune system.

36. The nervous system includes those organs and tissues that are

_____.

37. The nervous system allows us to sense and

_____.

38. List the organs and tissues that are a part of the nervous system.

39. The endocrine system includes those organs and tissues that produce

_____.

40. The endocrine system maintains homeostasis by

_____.

41. Define homeostasis.

42. List the organs and tissues that are a part of the endocrine system.

43. The function of the reproductive system is to _____.



Organization and Systems Vocabulary

Name: _____

Tissues	Organ Systems	Organization	Cell	Organs
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Use the words above to fill in the blanks below.

Clutter and a messy environment can lead to mismanagement and failure in a business. The human body is no different. For this reason, God created our bodies to have a system of _____ . In His wisdom, God knew that the body would need to have a structure that allows effective management of all life processes. Even the most basic building blocks of our body, the _____ , requires organization. In the human body, cells group together to form _____ that work together to complete a task. It is interesting to know that the many _____ formed by the different types of tissues are as diverse in shape and sizes as they are in function. They work together creating several different _____ that form the body as a whole.

Digestive	Muscular	Excretory	Respiratory	Skeletal
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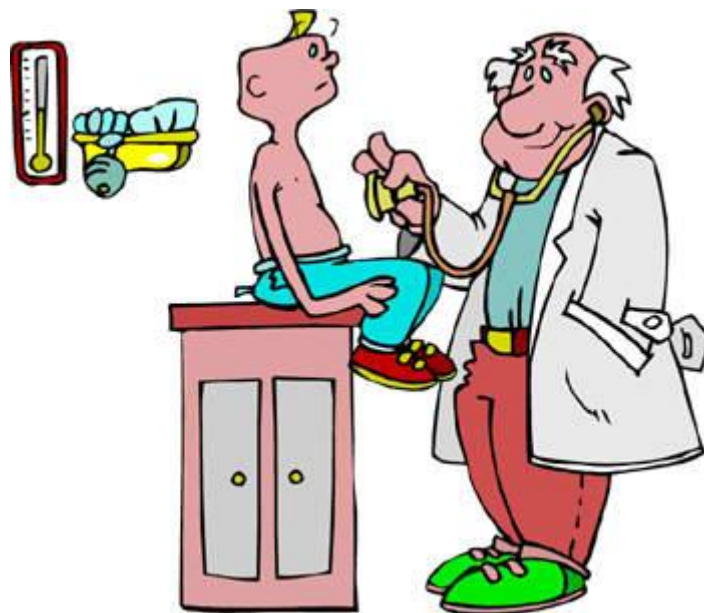
Use the words above to fill in the blanks below.

The human body is miraculous in its design. Several systems work together to accomplish all of life's processes. We have the _____ and _____ systems that allow us to move while providing protection and support. There is also the _____ system that supplies our body with fresh air while providing an escape for the poisonous carbon dioxide produced by our cells. The _____ system breaks down our meals into energy our cells can use, while the _____ system expels the waste produced after digestion.

Immune	Endocrine	Integumentary	Nervous
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Use the words above to fill in the blanks below.

Our skin, hair, and nails are all a part of the _____ system, which covers and protects our body. Our skin helps to keep bacteria and other harmful invaders that can make us sick outside of the body. For this reason, the skin is also a part of the _____ system, which has white blood cells to fight the invaders that do make it inside our body. Underneath our skin are nerves that can sense changes in our environment. These nerves send messages to the brain and are a part of the _____ system. When the brain receives messages from our nerves, it can send messages to the glands in our body and have them produce hormones to maintain homeostasis. These glands, which are a part of the _____ system, send messages to our cells by secreting the hormones into our blood stream. All our systems work together to help maintain life.



Structures of the Body

Name: _____

Explain This (write your response here):

Los Angeles, like most large cities, has a combination of freeways/interstates and local roads. Why?

1. What is the responsibility of the circulatory system?

2. Label the diagram of the circulatory system:



3. Fill in the table below:

Organ	Function
Heart	
Arteries	
Veins	

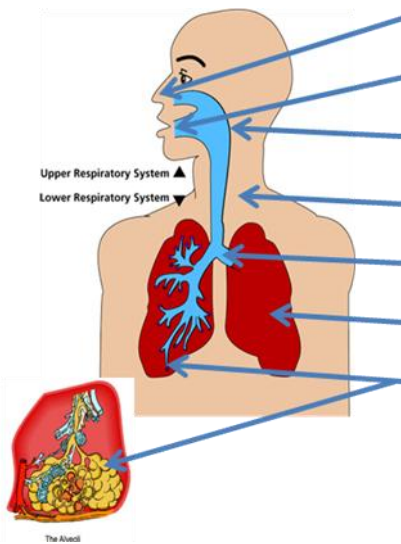
4. Describe the fight-or-flight response.

Explain This (write your response here):



What comes to mind when you see this picture? Explain.

5. Label the diagram of the respiratory system:

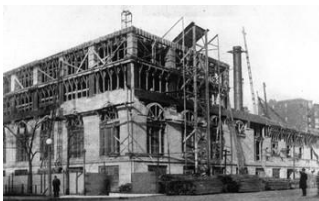


6. What exchange occurs in the alveoli?

7. Our body is designed to filter the air we breathe in. Describe two ways the air is filtered in our body.

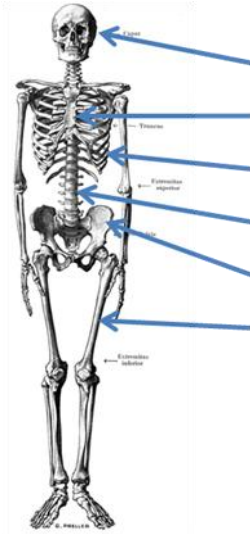
Picture This (write your response here):

Write a paragraph describing what comes to mind when you see this picture.



8. How many bones are in the human body?

9. Label the bones of the skeletal system:



10. Fill in the table below:

Bone(s)	AKA	Location	Function
	Skull		
			Provides vertical support and protects spinal cord
Ribs			
			Protects heart and lungs
		Hip	
	Thighbone		

11. What is the difference between a male pelvis and a female pelvis?

12. What are the largest and smallest bones in the human body?

13. The location where bones meet is called a _____.

14. _____ are the tissues that hold bones together at the joint.

15. Tissues called _____ cushion bones and limit the friction between them.

Explain This (write your response here):



What is the difference between these two cars?

16. How do muscles allow for movement?

17. Other than movement, what is the function of muscles?

18. What is the difference between voluntary and involuntary muscles?

19. Fill in the table below:

Cardiac Muscles	Smooth Muscles	Skeletal Muscles

20. Label the skeletal muscles:

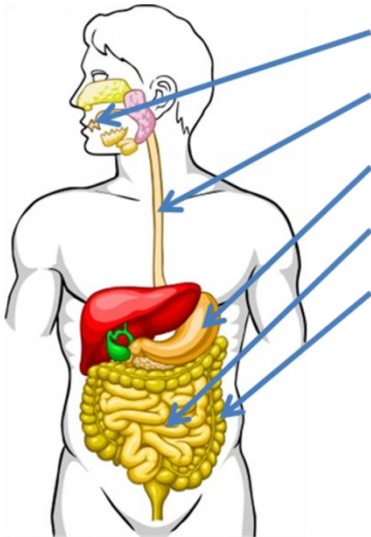


Picture This (write your response here):
Write a short story based on this series of pictures.



21. The digestive system is designed to break food down into _____.

22. Label the organs of the digestive tract:



23. Fill in the table below:

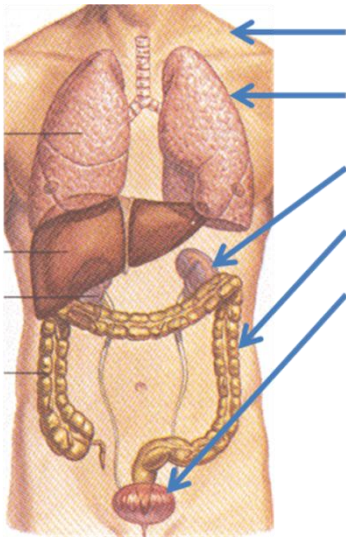
Organ	Function
Mouth	
Esophagus	
Stomach	
Small Intestine	
Large Intestine	

24. Depending on how much fiber was in your meal, digestion takes between _____ and _____ hours.

Discuss This (write your response here):

Imagine a world that did not have a waste management system. What would that world look like?

25. Label the excretory organs:



26. Fill in the table below:

Organ	Function
Skin	
Lungs	
Kidney	
Large Intestine	
Bladder	

27. What would happen if one kidney failed in a person's body?

Discuss This (write your response here):
How is the human body similar to a machine?

28. List the organs associated with the following systems:

a) Integumentary

b) Immune

c) Nervous

d) Endocrine

29. Is it possible for an organ to belong to more than one system? Explain.



Structures of the Body Vocabulary

Name: _____

Heart Arteries Veins Alveoli Trachea

Match the words above with the description below.

- _____ 1. The blood vessels that carry blood towards the heart
- _____ 2. The site where oxygen enters the blood and carbon dioxide is released
- _____ 3. The organ that pumps blood through blood vessels
- _____ 4. The tube air travels down that connects the pharynx to the bronchi
- _____ 5. The blood vessels that carry blood away from the heart



Cranium Vertebrae Sternum Pelvis Femur

Match the words above with the description below.

- _____ 6. Bones that form the hip and the attachment point for the leg bones
- _____ 7. The thighbone that manufactures red blood cells
- _____ 8. The spinal column that that provides vertical support and protects the spine
- _____ 9. The bones of the skull that protects the brain
- _____ 10. The bones connected to the ribs that protect the heart and lungs

Ligaments	Cartilage	Joints	Voluntary Muscles	Involuntary Muscles
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Match the words above with the description below.

- _____ 11. Tissues that hold bones together
- _____ 12. Muscles that you are able to control
- _____ 13. The site where a bone meets another bone
- _____ 14. Muscles that are automatically controlled by the brain
- _____ 15. Tissues that provide cushion to the end of bones and limit friction



Mouth	Esophagus	Stomach	Small Intestine	Large Intestine
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Match the words above with the description below.

- _____ 16. Absorbs water and minerals while holding feces
- _____ 17. The tube that connects the mouth to the stomach
- _____ 18. Breaks food down into molecules that are absorbed by villi
- _____ 19. Saliva turns starches into sugars as the teeth grind food
- _____ 20. Churns food into small pieces forming a soupy mixture