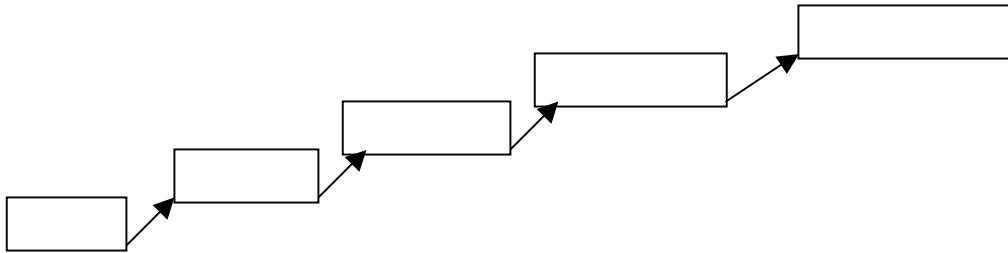


**Body Systems and Homeostasis 13.1**

Date \_\_\_\_\_

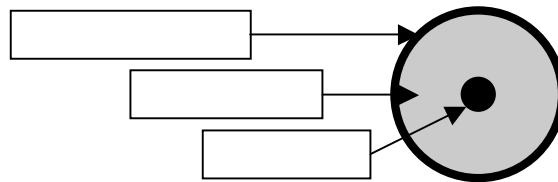
Last Name \_\_\_\_\_, First \_\_\_\_\_ per \_\_\_\_\_

1. Lift and balance a book. Focus on all of your body parts that are involved and make a list and describe how they are involved in the act.
  
2. List the 5 levels of organization in the body.



3. What is the body's **basic unit** of structure and function?

4. Label the **3 major parts of a cell?**



5. Complete the list of **5 processes that are carried out by a cell.**
  - a. Take in \_\_\_\_\_
  - b. Take in oxygen and release \_\_\_\_\_.
  - c. Provide \_\_\_\_\_
  - d. \_\_\_\_\_, live, and die
  - e. Produce \_\_\_\_\_

6. What is a **tissue** and what are the **4 types?**

*A tissue is a group of \_\_\_\_\_ that perform the \_\_\_\_\_*

The 4 types of tissue are:

1. \_\_\_\_\_ tissue
2. \_\_\_\_\_ tissue
3. \_\_\_\_\_ tissue
4. \_\_\_\_\_ tissue

7. What is the **function of muscle tissue**? Name 3 things muscles move in the body?

*The function of muscle tissue is \_\_\_\_\_*

1. Move \_\_\_\_\_
2. Move \_\_\_\_\_
3. Move \_\_\_\_\_

8. What kind of tissue is found in the brain and spinal cord? \_\_\_\_\_

- a. What is the **function of nerve tissue**?

*Nerve tissue \_\_\_\_\_ back and forth between body parts.*

9. Describe the **function of connective tissue**?

\_\_\_\_\_ tissue \_\_\_\_\_ the parts of the body and provides \_\_\_\_\_

10. What are the **functions of epithelial tissue**?

- a. \_\_\_\_\_ tissue \_\_\_\_\_ the surfaces of the body inside and \_\_\_\_\_.
- b. \_\_\_\_\_ provides a protective \_\_\_\_\_.
- c. Epithelial tissue surrounds \_\_\_\_\_ like the heart.
- d. Epithelial tissue \_\_\_\_\_ and releases needed \_\_\_\_\_.

11. In slide #12, "Tissues Form Organs", What types of tissue are shown in the sample of human intestine?

- a. \_\_\_\_\_ tissue
- b. \_\_\_\_\_ tissue

12. What are **organs**?

\_\_\_\_\_ are composed of \_\_\_\_\_ kinds of \_\_\_\_\_ that work together to \_\_\_\_\_ a specific \_\_\_\_\_. An example of an organ is the \_\_\_\_\_.

13. What are **organ systems**?

An \_\_\_\_\_ is a \_\_\_\_\_ of organs that \_\_\_\_\_ to perform major \_\_\_\_\_.

14. Complete the table.

ORGAN SYSTEM	MAJOR FUNCTION
Circulatory	
Digestive	
Endocrine	
Excretory	
Immune	
Muscle	
Nervous	
Reproductive	
Respiratory	
Skeletal	
Skin	

### **Homeostasis**

1. How does your body react when sudden changes occur in your environment?
2. Define **Homeostasis**

\_\_\_\_\_ is the process by which an organism's internal environment is  
 \_\_\_\_\_ in spite of \_\_\_\_\_ in the \_\_\_\_\_.

3. Name 3 more things that the body works at to keep in balance.
  1. Water balance
  2. Temperature balance
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  
4. \_\_\_\_\_ is the body's reaction to a threatening, challenging, or disturbing event.
  - a. Give an example of something that would cause stress.  
 \_\_\_\_\_
  
5. List 3 reactions of the body during an **"alarm stage"**.
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  
6. List 2 more effects of long term stress.
  - a. tiredness
  - b. irritable
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
  
7. True or False: It is better to ignore a stressful event. That way the stress will go away.
  
8. List 3 positive ways to deal with stress.
  
9. Who's the Man!?
  
10. List 3 poor ways to deal with stress.