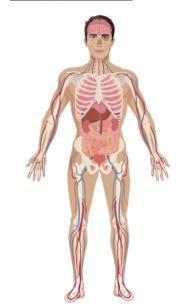
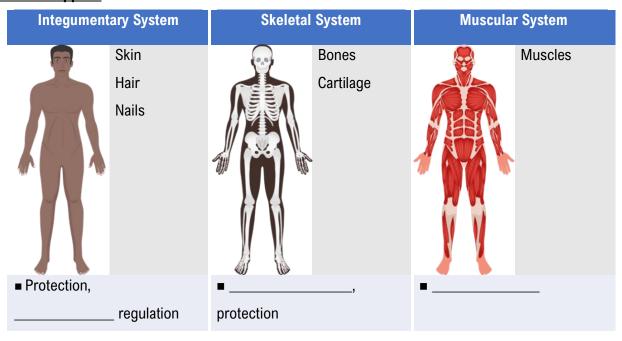
### **TOPIC: INTRODUCTION TO ORGAN SYSTEMS**

- Recall: organ system group of organs that coordinate to perform a common \_\_\_\_\_
- \_\_\_\_\_ of anatomy and physiology often broken up by organ system.
  - Grouped by function:
    - Protection, structure, & support (3)
    - Communication & integration (2)
    - Transport & immunity (2)
    - Nutrient, gas, & waste exchange (3)
    - Reproduction (1 system w/ two variants)
  - Important: Bodies are highly \_\_\_\_\_
    - Organs & systems have many \_\_\_\_\_ functions.



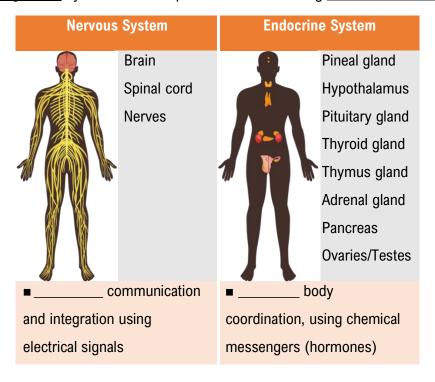
## **Protection and Support:**



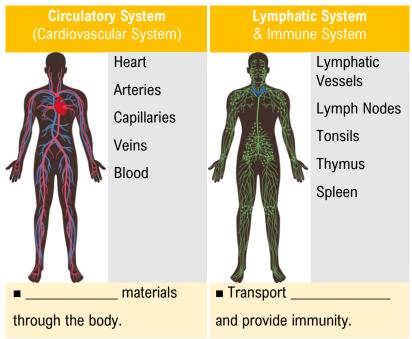
Muscular & skeleton: sometimes combined as the \_\_\_\_\_skeletal system.

## **TOPIC:** Introduction to Organ Systems

**Communication and Integration:** Systems most responsible for maintaining

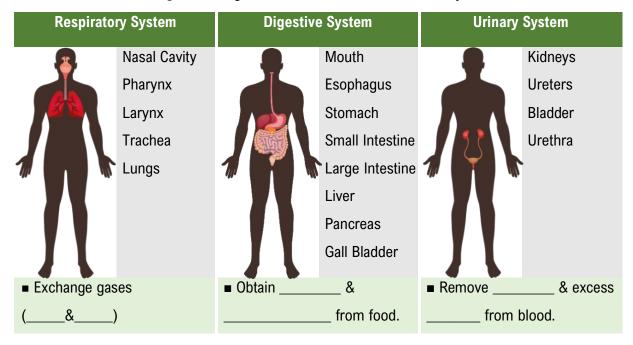


# **Transport and Immunity:**

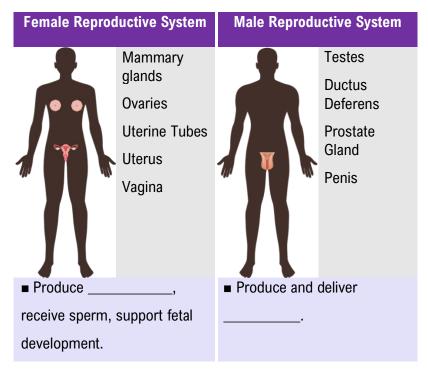


### **TOPIC: INTRODUCTION TO ORGAN SYSTEMS**

Gas, Nutrient, and Waste Exchange: exchange material between outside the body and the



Reproduction: produce \_\_\_\_\_\_.



#### **TOPIC:** INTRODUCTION TO ORGAN SYSTEMS:

**PRACTICE**: The digestive and respiratory systems are both responsible for taking in useful molecules into the body.

When taken in by these systems, where do the molecules go first?

a) The muscular system.

c) The endocrine system.

b) The cardiovascular system.

d) The urinary system.

PRACTICE: Which system is the least responsible for keeping you alive on a day-to-day basis?

a) The reproductive system.

c) The digestive system.

b) The cardiovascular system.

d) The endocrine system.

**PRACTICE:** Distinguish between the endocrine system and the nervous system.

a) The nervous system sends messages using chemical signals, while the endocrine system uses electric signals.

b) The endocrine system's communication mechanisms tend to work more slowly than the nervous system.

 c) The endocrine system uses direct point-to-point communication; the nervous system sends whole-body messages.

d) Both the systems use hormones, but hormones from the endocrine system enter the blood.

**PRACTICE:** Which two systems allow materials to move from one region of the body to another?

a) Endocrine and cardiovascular.

c) Digestive and integumentary.

b) Respiratory and digestive.

d) Circulatory and lymphatic.

**PRACTICE:** Which organ systems directly allow waste materials to be passed out of the body?

a) Respiratory and endocrine.

c) Urinary and respiratory.

b) Circulatory and digestive.

d) Circulatory and lymphatic.

**PRACTICE:** Of all your systems, the integumentary, respiratory, and digestive most regularly experience infection from microorganisms. Which answer best describes why that may be the case?

a) All three systems are in regular contact with substances from outside the body that may contain bacteria.

b) All three systems are closely linked to the immune system, meaning they protect against microorganisms.

c) All three systems have limited blood supply, meaning the body has difficulty fighting infection in those places.

d) All three systems function to transfer materials from outside of the body to inside the body, giving microorganisms and entry point.