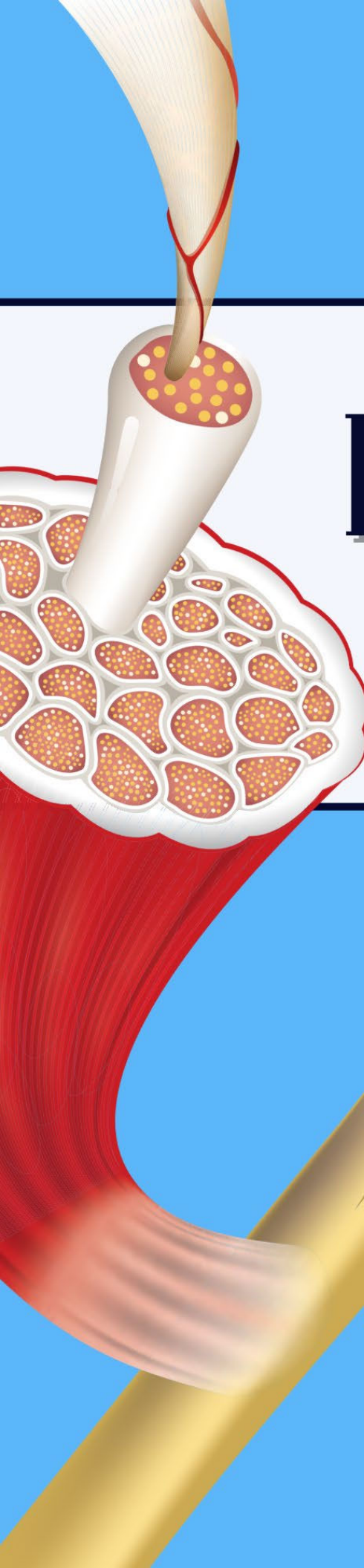


An anatomical illustration of a joint, likely a knee, showing a cross-section of the femur (thigh bone) at the top, the tibia (shin bone) at the bottom, and the patella (kneecap) in the middle. The femur and tibia are shown in a light yellow color, while the patella is white. The joint is surrounded by a thick, red, fibrous structure representing the ligaments and meniscus. The background is a solid light blue color.

# HUMAN BODY PART 1

Question: How does the body cool itself?

## THE SKIN

Skin - largest organ of the body that covers and protects the body from injury, infection and water loss.

- **Protecting the body** - forms a barrier to keep disease-causing microorganisms and harmful substances out and keep water in.
- **Maintaining temperature** - skin is composed of many blood vessels that can expand to allow more blood flow. Skin also contains sweat glands which produce perspiration to cool your skin.
- **Eliminating wastes** - perspiration also contains dissolved wastes from the

Skin is made up of two layers

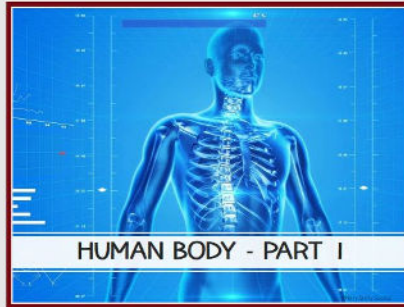
### The Epidermis

- thin, outer layer of skin
- does NOT contain nerves
- blood vessels
- outer-most cells are dead
- cells produce melanin, which is a pigment that gives skin color

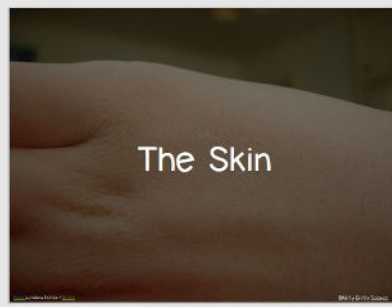
Skin is able to produce new cells

- Scabs form to prevent infection
- Skin cells beneath scabs multiply to fill the wound
- Skin grafts, pieces of skin from another person, are used in the case of severe skin damage

**EDITABLE student notebook pages - digital links included for students to complete guided notes on Google Drive**



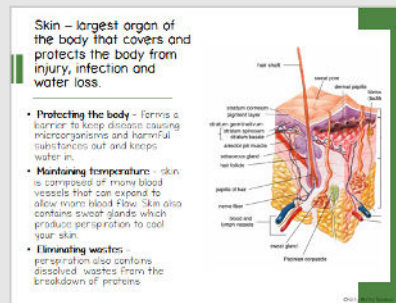
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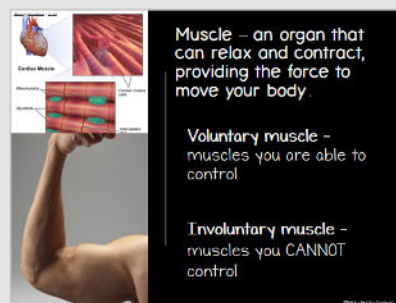


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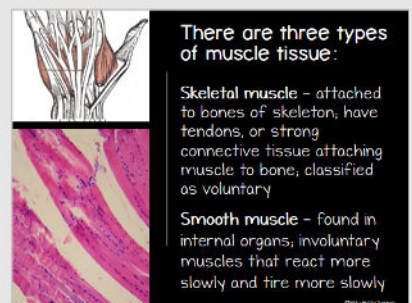
Skin is made up of two layers of tissue:

| The Epidermis                                                            | The Dermis                                                            |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------|
| thin, outer layer of skin which does NOT contain nerves or blood vessels | inner layer of skin between epidermis and fat, thicker than epidermis |
| outer-most cells are dead                                                | contains sweat glands, hairs and oil glands                           |
| cells produce melanin which is a pigment that gives skin color           | perspiration leaves skin through pores and strands                    |

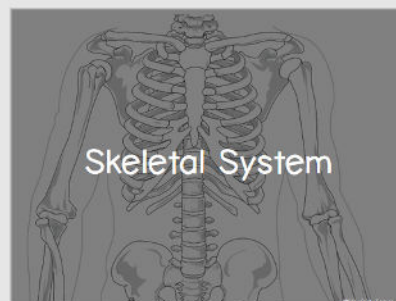
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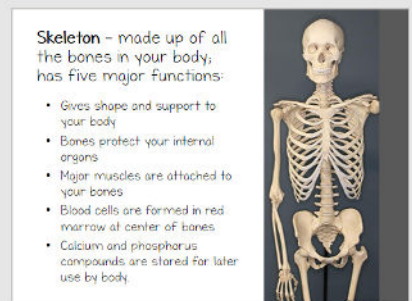
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12

**EDITABLE PowerPoint presentations include high-resolution graphics and feature all topics and vocabulary covered in the notes**

Name \_\_\_\_\_ Date \_\_\_\_\_

## CHAPTER TEST HUMAN

### Multiple Choice

Choose the answer that best completes each statement.

- \_\_\_\_ 1. All \_\_\_\_\_ muscle contracts under unconscious control.  
a. voluntary  
b. involuntary  
c. skeletal  
d. striated
- \_\_\_\_ 2. Messages are carried by \_\_\_\_\_.  
a. respiratory  
b. nervous  
c. the circulatory  
d. digestive
- \_\_\_\_ 3. Which organ is not part of the digestive system?  
a. skeletal  
b. nervous  
c. circulatory  
d. digestive
- \_\_\_\_ 4. Which type of tissue is found in the heart?  
a. nerve tissue  
b. muscle  
c. connective  
d. epithelial
- \_\_\_\_ 5. Which of the following is not a function of the skin?  
a. protection  
b. absorption  
c. excretion  
d. production of vitamin D
- \_\_\_\_ 6. The spaces between the cells of the nervous system are called \_\_\_\_\_.  
a. blood  
b. water  
c. cerebrospinal fluid  
d. marrow
- \_\_\_\_ 7. What kind of tissue is found in the heart?  
a. epithelial  
b. skeletal  
c. connective  
d. all of the above

Source: Holt

**EDITABLE** Chapter test includes multiple choice, fill in the blank, interpreting diagrams, & short Answers questions

Use the diagrams to answer each question.



43. Which type of part is Tact A?

44. Which type of part is Tact C?

45. Which type of part is found at Tact B which is located in each vertebrae T and T2?

- \_\_\_\_ 24. What part of the brain controls memory?  
a. cerebrum  
b. brainstem  
c. cerebellum  
d. spinal cord
- \_\_\_\_ 25. The brain and spinal cord make up the \_\_\_\_\_.  
a. central nervous system  
b. peripheral nervous system  
c. somatic nervous system  
d. autonomic nervous system
- \_\_\_\_ 26. The three regions that make up the brain include the cerebrum, cerebellum, and \_\_\_\_\_.  
a. tentorium  
b. brain stem  
c. spinal cord  
d. reflex
- \_\_\_\_ 27. Cone cells enable you to see \_\_\_\_\_.  
a. colors  
b. black and white  
c. at night  
d. nearby objects

### Fill-in-the-blank

Complete each statement with the correct vocabulary term.

- \_\_\_\_ 28. The outermost layer of the skin is the \_\_\_\_\_.
- \_\_\_\_ 29. To bend a joint, one muscle \_\_\_\_\_ while another muscle returns to its original length.
- \_\_\_\_ 30. Blood cells are produced in \_\_\_\_\_ bone marrow.
- \_\_\_\_ 31. Digestion begins in the \_\_\_\_\_.
- \_\_\_\_ 32. Food is pushed through the esophagus to the stomach by the waves of muscle contraction known as \_\_\_\_\_.
- \_\_\_\_ 33. A \_\_\_\_\_ is an automatic response that occurs very rapidly.

\_\_\_\_ 34. \_\_\_\_\_ is the delicate tissue of the brain.

Source: Holt

**Answer key included – Images are blurred for copyright reasons**



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