

**Honors Anatomy- Chapter 5 Project  
The Integumentary System Presentation**

**You and the members of your group will be creating a presentation about the Integumentary System. Your presentation will be in the format similar to my chapter lecture powerpoints.**

**You may use Google Docs presentation program or Microsoft Powerpoint. Google Docs would be my preference.**

**Each member of your group will be responsible for at least 1 section of the Integumentary System presentation.**

**Each section must have the information requested and an illustration, picture or animation. All pictures associated with a disease or disorder must be approved before placing them into your presentations.**

**Each group will print out 4 copies of their entire presentation, which will be turned in to me. Finally, each group will present only the skin disease or disorder you were assigned. On your introductory slide include the title: Chapter 5- The Integumentary System, ALL of the names of the people in your group (listed alphabetically by last name), your period, and the date.**

**Sections to be covered:**

- I. Integumentary System (Introduction)
  - A. What does the integumentary system consist of?
  - B. Functions
  
- II. Hypodermis
  - A. Composed of what type of tissue? Be specific.
  - B. Cells and structures found within the hypodermis (if applicable). Be sure to include functions.
  - C. Location in the integumentary system.
  - D. Functions
  
- III. Skin
  - A. Dermis
    1. Composed of what type of tissue? Be specific.
    2. Cells and structures found within the dermis (if applicable). Be sure to include functions.
    3. Location in the integumentary system.
    4. Functions
  - B. Epidermis
    1. Composed of what type of tissue? Be specific.
    2. Discuss the 2 main layers of the epidermis.
      - a. What shaped cells are found in each layer?
      - b. What occurs (if applicable) at each layer?
    3. Cells and structures found within the epidermis (if applicable). Be sure to include functions.
    4. How is new epidermis formed?
    5. Location in the integumentary system.
    6. Functions
  - C. Skin Color
    1. Discuss each cause for skin color. Be sure to include pigments, cells, and any other structures or things involved in skin color.

#### IV. Accessory Structures

##### A. Hair

1. Parts of Hair
2. Physiology of Hair Growth (How Hair Grows)

##### B. Muscle

1. Name
2. What structure is this muscle associated with?
3. What does contraction of this muscle cause?
4. What is the purpose for this muscle contraction?

##### C. Glands

1. Sebaceous Gland
  - a. What structure is this gland associated with?
  - a. What is this gland's function?
  - b. What does this gland secrete?
    1. What is the function of this secretion?
2. Sweat Glands
  - a. Merocrine Glands
    1. Location
    2. Secretion
    3. When is this type of gland activated?
  - b. Apocrine Glands
    1. Location
    2. Secretion
    3. When is this type of gland activated?

##### D. Nails

1. Parts of a Nail
2. Physiology of Nail Growth (How Nails Grow)

#### V. Physiology of the Integumentary System

- A. List and discuss the 5 main functions of the Integumentary System

#### VI. Skin Disease or Disorder

- A. Name of the disease or disorder
- B. Where does it occur in the skin? Dermis or Epidermis? What tissue is affected?
- C. Cause of the disease or disorder
- D. How is this disease or disorder diagnosed? Signs and Symptoms.
- E. Treatments or cures for the disease or disorder

**List of disorders or diseases. If you would like to do a different disease or disorder not on the list, you must get prior approval by me.**

Acne

Athlete's foot

Stretch marks

Basal cell carcinoma

Squamous cell carcinoma

Frostbite

Shingles

Albinism

Boils

Burns

Chicken pox

Leprosy

Necrotizing fasciitis

Decubitus Ulcer

Ingrown Toenail

Mastocytosis

#### **Helpful Websites**

<http://www.healthline.com/health/skin-disorders>

<http://www.nlm.nih.gov/medlineplus/skinconditions.html>

<http://www.medicinenet.com/skin/focus.htm>