Integumentary System

- Cells
  - Melanocyte
    - Melanin - Pigment
- Purpose
  - Barrier against invasion
  - Regulation
    - Temprature
      - dialation of blood vessels to disipate heat
      - Sweat for reducing temprature
    - Toxicity
      - Sweat removes toxins
    - Fluid Balance / Electrolytes
  - Sensation
    - Sebaceous gland excretes oil to prevent liquid loss
- Parts
  - Skin
    - Made of
      - Keratin
    - Layers
      - Epidermis
        - 5 Layers
          - Top - Stratum Corneum
          - Bottom - Stratum Basale
      - Dermis = Cutis = Corium = True Skin = Cutaneous Layer
      - Hypodermis = Superficial Fascia = Subcutaneous Layer
    - Properties
      - Elasticity
        - marks physiological age
  - Glands
  - Hair
    - Made of
      - Keratin
    - Characterisitcs
      - Shape of hair determines hair type
        - Circular = Straight
        - Egg shape hair = Wavy
        - Triangle shape hair = Kinky
      - Color
        - Amount of pigament
        - Color additive
          - Blond = Sulfur (thinest hair)
          - Red = Iron (thickest hair)
  - Nails
    - Made of
      - Keratin