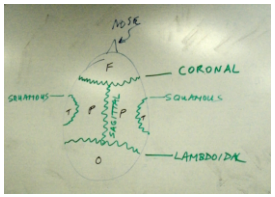
Skeletal System

- Parts
  - Axial
    - Sternum
      - manubrium
      - body / gladiolus
      - xiphoid process
    - hyoid
      - Only free floating bone in body
    - skull
      - Cranial Bones
        - Frontal - forehead
        - Porietal - top sides
        - Temporal - sides
        - Occipital - back of head
        - Sphenoid - part at temple
      - Orbit Bones
        - Zygoma
        - Ethmoid
        - Lacrimal
        - Maxilla
      - Facial
        - Mandible
        - Vomer
        - Palatine
      - Fontanels
        - soft spot on baby's head that become sutures
      - Sutures



    - vertebrae
      - 7 Cervical
        - C1 = Atlas
        - C2 = Axis
          - Odontoid Process / Dens fits in to C1
        - Convex Curve
      - 12 Thoracic
        - Concave Curve
      - 5 Lumbar
        - Convex Curve
      - 4-5 Fused in to Sacral
        - Concave Curve
      - 3-5 Fused in to Coccigeal
        - Concave Curve
      - Problems
        - Kyphosis - Hump Back
        - Lordosis - Swayback
        - Scoliosis - Side curve
    - ribs
      - True Ribs
        - 7 pairs
        - 3 are connected by cartlidge
      - False Ribs
        - 5 pairs
        - 2 are floating
  - Appendicular
    - Appendages (Extremeties)
      - Upper (Arms)
        - Humerus
          - (Olecranon Process)
        - radius
        - ulna
          - carpals
            - pisiform
            - metacarpals
              - phalanges
      - Lower (Legs)
        - Femur
        - Patella
          - tibia
            - fibula
              - tarsals
                - metatarsals
                - phalanges
                - Calcaneous
    - Girdles
      - Pectoral
        - Clavicle
        - Scapula
      - Pelvic
        - Pubis
        - Ischium
        - Ilium
- Bone Cells
  - Types
    - Osteocyte
    - Osteblast
    - Osteoclast
  - Hormones
    - Calcitonin (from thyroid)
      - Calcium from Blood -> Bone
    - Parathroid Hormone (from parathyroid)
      - Calcium from Bone -> Blood
- Bone to bone attached by
  - Ligaments
  - Cartilage
- Functions
  - Protection
    - Brain
    - Heart / Lungs
    - Reproductive system
  - Support / Framework
  - Lever
    - Classes
      - Class 1 - Scissor
      - Class 2 - Wheelbarrow
      - Class 3 - Tweezer
  - Storage
    - Calcium
      - Nerves
      - Muscle Contractions
      - Bones
  - Blood Production
- Trivia
  - Hardest
    - Femur
  - smallest
    - Ossicles - ear bones
      - Malleus
      - Incus
      - Stapes