

The Axial Skeletal System

Important Note. You are responsible for what is on this outline.
When you view the image bank, if there are structures labeled not on this outline, you are not responsible for them.

1. The Skeleton
 - A. Axial Skeleton
 - B. Appendicular Skeleton
 - i. Girdles
 - a. Pectoral Girdle
 - b. Pelvic Girdle
2. Cranial Bones
 - A. Frontal Bone
 - i. Orbits
 - ii. Supraorbital Margin
 - a. Infraorbital Margin (not frontal bone)

Frontal Squama
 - ii. Eyebrow Ridge
 - iv Frontal Sinuses
 - Paranasal Sinus
 - v. Supraorbital Foramina

B. Parietal Bones

- i. Sagittal Suture
- ii. Coronal Suture
- iii. Squamosal Suture
- iv. Lambdoidal Suture
- v. Superior Temporal Line

D. Temporal Bones

- i. Temporal Squama
- ii. Zygomatic Process (and Zygomatic Arch)
- iii. External Auditory Meatus
- iv. Internal Auditory Meatus
- v. Petrous Portion
- vi. Mandibular Fossa and the Articular Tubercle
 - Temporomandibular Joint
- vii. Mastoid Process
- viii. Styloid Process

E. Occipital Bone

- i. Foramen Magnum
- ii. Occipital Condyles

F. Sphenoid Bone

- i. Body
- ii. Sella Turcica
- iii. Sphenoidal Sinuses
- iv. Greater Wings
- v. Lesser Wings
- vi. Optic Foramen
- vii. Superior Orbital Fissure
- viii. Inferior Orbital Fissure

G. Ethmoid Bone

- i. Ethmoidal Sinuses
- ii. Perpendicular Plate
- iii. Cribriform Plate (Pull out your handout on “*Olfactory Epithelia*”)
 - a. Olfactory Foramina
- iv. Crista Galli
- v. Superior Nasal Concha
- vi. Middle Nasal Concha

2. Facial Bones

A. Nasal bones

B. Maxillae

- i. Maxillary Sinus
- ii. Alveolar Process
- iii. Alveoli
- iv. Palatine Process
- v. Inferior Orbital Fissure

C. Zygomatic Bone

- i. Temporal Process (forms Zygomatic Arch)
- ii. Infraorbital Margin

D. Mandible

- i. Body
- ii. Rami
- iii. Angle
- iv. Condylar Process
- v. Coronoid Process
- vi. Alveolar Process

- vii. Alveoli
- F. Lacrimal Bones
 - i. Lacrimal Foramin
- G. Palatine Bones
 - i. Horizontal Plate
- H. Inferior Nasal Concha
- I. Vomer
 - i. Nasal Septum
- J. Hyoid Bone
 - i. Body
 - ii. Greater Cornu
 - iii. Lesser Cornu
- 3. Vertebral Column
 - A. Vertebral Distribution
 - i. Cervical Vertebrae (7)
 - ii. Thoracic Vertebrae (12)
 - iii. Lumbar Vertebrae (5)
 - iv. Sacral Vertebrae (5)
 - v. Coccygeal vertebrae (4)
 - B. Names of Major Curves
 - i. Cervical Curve
 - ii. Thoracic Curve
 - iii. Lumbar Curve
 - iv. Sacral Curve

C. Curvature Classifications

i. Convex

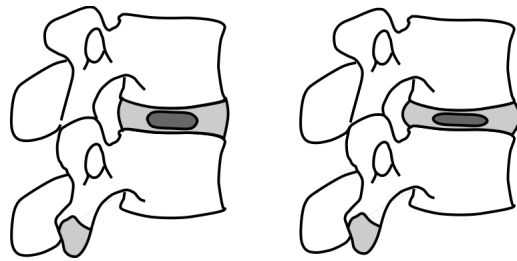
Cervical and Lumbar are Convex “Anteriorly”
or (Concave “Posteriorly”)

ii. Concave

Thoracic and Sacral are Concave “Anteriorly”
or (Convex “Posteriorly”)

D. Intervertebral Discs

i. Annulus Fibrosus



ii. Nucleus Pulposus

4. Typical Vertebrae

A. Body

B. Vertebral Arch

C. Vertebral Foramen

D. Vertebral Canal

E. Intervertebral Foramen

- F. Processes
 - i. Transverse Process
 - ii. Spinous Process
 - iii. Superior Articular Processes
 - iv. Inferior Articular Processes
 - G. Facets
5. Cervical Vertebrae
- A. General Characteristics
 - i. Transverse Foramen
 - ii. Bifid Spinous Process
 - B. Atlas (C1)
 - i. Anterior and Posterior Arches
 - ii. Lateral Masses
 - iii. Superior Articular Facets
 - iv. Inferior Articular Facets
 - C. Axis (C2)
 - i. Dens
 - D. 3rd thru 6th vertebrae (C3-C6)
 - are like Typical Vertebrae
 - E. Vertebra prominens (C7)

6. Thoracic Vertebrae
 - A. Facets
 - B. Demifacets

7. Lumbar Vertebrae (L1-L5)

8. Sacral Vertebrae
 - A. Transverse Lines
 - B. Sacral Hiatus
 - C. Sacral Cornua
 - D. Superior Articular Process and Facet

9. Coccygeal Vertebrae
 - A. Coccygeal Cornua

10. Thorax
 - A. Sternum
 - i. Manubrium
 - ii. Body
 - iii. Xiphoid Process
 - iv. Clavicular Notch

B. Ribs

i. Types of Ribs:

a. True Ribs

b. False Ribs

- Vertebrochondral Ribs

- Floating Ribs

i. Typical Rib

a. Head

b. Neck

c. Body

d. Tubercle

e. Superior Facet

r. Inferior Facet

g. Interarticular Crest