

Lab 7: Axial Skeleton

Be able to name the bones of the entire axial skeleton. This includes the skull, vertebrae, ribs, and associated structures (Exercise 9 & Skeletal Atlases). You must be able to differentiate vertebrae, articulated and disarticulated skull bones, a multitude of bone markings, and tell right vs. left when applicable.

Skull:

Frontal Bone

Parietal Bones

Occipital Bone

Temporal Bone, including the **Styloid**, **Mastoid**, and **Zygomatic Processes**

Temporal Fossa – what structure does it accommodate? _____

Maxilla, including the **Palatine Process**

Palatine Bone

Zygomatic Bone – What three bones make up the Zygomatic Arch?

Zygomatic Arch – what attaches to it? _____

Mandible and Mental Foramen

Sagittal, Coronal, Lambdoid, and Squamosal Sutures, including **Sutural Bone**

Nasal Bone, and **Vomer**

External and Internal Nares

Lacrimal Fossa of Lacrimal Bone - what structure sits in here? _____

Cribriform Plate, Olfactory Foramina, and Crista Galli of the **Ethmoid** – what passes through here? _____

Greater & Lesser Wings of the **Sphenoid Bone**

Sella Turcica of Sphenoid – which part of the brain sits in here? _____

Optic Canal – what structure passes through here? _____

External and Internal Nares

External and Internal Auditory/Acoustic Meatus of Temporal Bone – what passes through each of these openings? _____

Carotid Canal – what passes through this opening? _____

Jugular Foramen – what passes through this opening? _____

Foramen Magnum – what passes through here? _____

Occipital Condyles – what are they for? _____

Frontal, Ethmoid, Sphenoid, & Maxillary Sinuses

Vertebrae & Ribcage:

Be able to identify which region of the vertebral column a vertebrae is from
(**Cervical, Thoracic, Lumbar**)

Transverse Foramen on cervical vertebrae – what passes through here? _____

Atlas and Axis with Dens/Odontoid Process

Vertebral Body/Centrum

Vertebral Arch

Vertebral Foramen/Canal – what passes through here? _____

Spinous and Transverse Processes

Superior and Inferior Articular Processes/Facets

Sacrum and Coccyx

Ribs, including their **head** and **tubercle**

Manubrium, Body, and Xiphoid Process of the Sternum

Hyoid Bone