

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). 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**

Maxilla, including the **Palatine Process**

Palatine Bone

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

Mandible and **Mental Foramen**

Nasal Bone, and **Vomer**

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

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

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

Sagittal, **Coronal**, **Lambdoid**, and **Squamosal Sutures**

Temporal Fossa – what structure does it accommodate? _____

Zygomatic Arch – what attaches to it? _____

External and **Internal Nares**

Optic Canal – what structure passes through here? _____

External and **Internal Auditory/Acoustic Meatus** – 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**).

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

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

Sacrum and Coccyx

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

Manubrium, Body, and Xiphoid Process of the **Sternum**