

AXIAL SKELETON: SKULL

10/18/84 rvsd 10/29/96, 10/21/99, 22 Oct 01, 27 Oct 03, 20 Oct 04, 24 Oct 05, 20Oct08
JFL: 120-, Martini 5th 195-211, 6th: 209-228, 7th: 206-234, 8th: 212-230

Two parts to skull: **cranial and facial.** Possess sinuses.
Tied together with **sutures** **in childhood, fibrocartilage** ties together, then ossify

CRANIAL BONES:

FRONTAL p 219 forehead, roof of nasal cav, roof of orbits. Joined via **coronal suture** with parietals

Features: frontal sinuses, superciliary arch, supraorbital margins, glabella

PARIETAL BONES p 218 joined by **sagittal sutures**, with parietal by coronal suture, grooves and depressions, lodge venous sinuses, convolutions of brain

OCCIPITAL: 218 joined via **lamboid suture** with parietal

Features: foramen magnum, basioccipital, occipital condyles, external occipital protuberance hypoglossal canal

TEMPORAL BONE: p 220 enclose ear, fossae for articulation with mandible

Portions:

squamous articulates with **parietal**

petrous projects medially between **sphenoid** and **occipital**: middle and inner ear cav.

not used in Martini **mastoid** behind ear, mastoid cells or sinuses, muscle attachment point

tympanic surrounds external auditory meatus] not used these days?

Features: zygomatic process, internal & external auditory meatus (canal), styloid process, mandibular fossa, jugular foramen between occipital and temporal bones

SPHENOID BONE (wedge-like) central body with two wings("anchor of the skull")

p 221 Articulates with: **temporal** and **ethmoid** in front, **occipital** in back, anchors cranial bones

Features: lesser wings, greater wings, sella turcica, foramina rotunda & ovale, optic foramen, pterygoid processes,

ETHMOID: p 222 (sieve-like) supports nasal cavity, aids in forming orbits, mostly cancellous tissue

Features: cribriform plate, crista galli, superior & middle conchae (shells) perpendicular plate

AUDITORY OSSICLES: (discussed later with special senses), malleus, incus, stapes

FACIAL BONES:

ORBIT (p 228) **Rim** formed by **frontal**, **maxillary** and **zygomatic**.

Rear by **sphenoid** and parts of **ethmoid** (med.) & **palatine** (lat.)

medial wall includes **lacrimal**

ZYGOMATIC p 224 bridges from maxillary to temporal

PALATINE p 223 posterior part of roof of mouth,

LACRIMAL p 224 posses lacrimal sulcus

NASAL p 224 paired, bridge of nose, articulate with frontal bone

MAXILLARY p 223 (all facial bones articulate with **Max**,) forms roof of mouth, floor and sides of nasal cavity, floor of orbit. Lg sinuses

MANDIBLE p 225 **Features:** body and ramus, angle, coronoid process, notch, condyles, alveolar margins

NASAL CAVITY:

VOMER p 217 inferior nasal septum, hard palate to ethmoid

INFERIOR NASAL CONCHAE: p 229 just below ethmoid, closest to nares