D.PHARM • FIRST YEAR

Human Anatomy & Physiology

CHAPTER 4

Osseous System (Skeletal System)



ENGLISH CHAPTER NOTES

DIPLOMA IN PHARMACY

AXIAL AND APPENDICULAR SKELETON

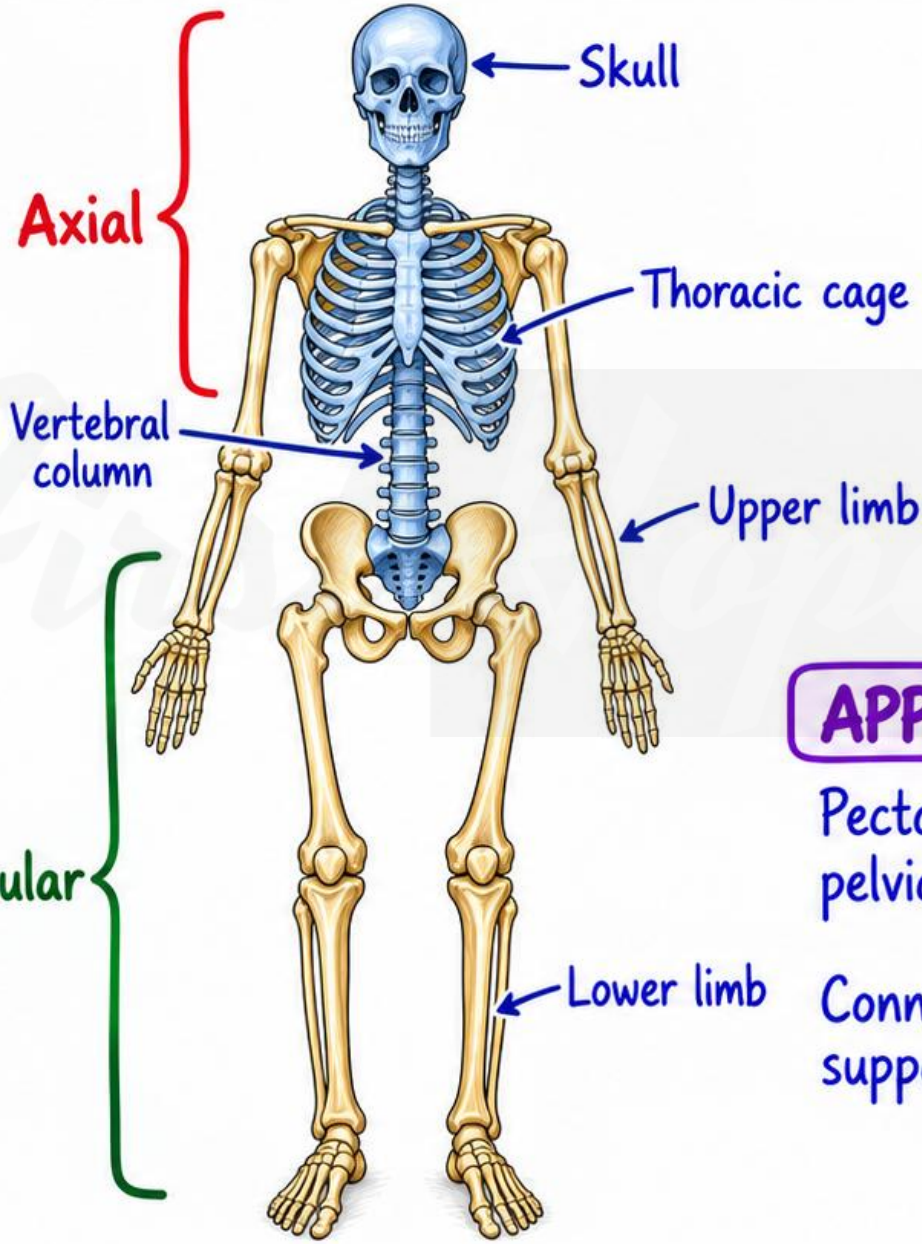
THE ADULT SKELETON

Typically has 206 bones.

AXIAL: 80 BONES

Skull 22, auditory ossicles 6, hyoid 1, vertebral column 26 and thoracic cage 25.

Forms the central axis and protects the brain, spinal cord and chest organs.



APPENDICULAR: 126 BONES

Pectoral girdles 4, upper limbs 60, pelvic girdle 2 and lower limbs 60.

Connects limbs to the axis and supports movement.

CRANIAL BONES

THE CRANIUM

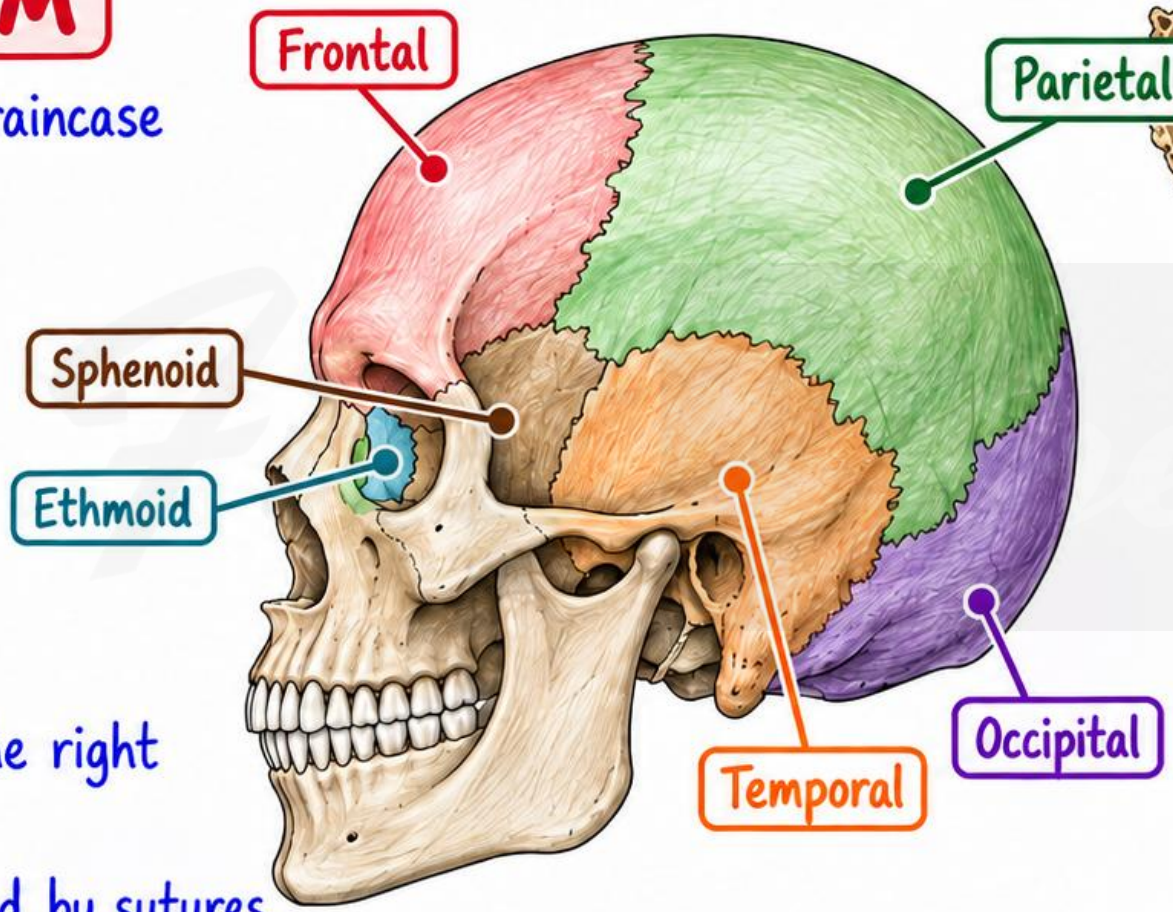
Eight bones form the braincase and protect the brain.

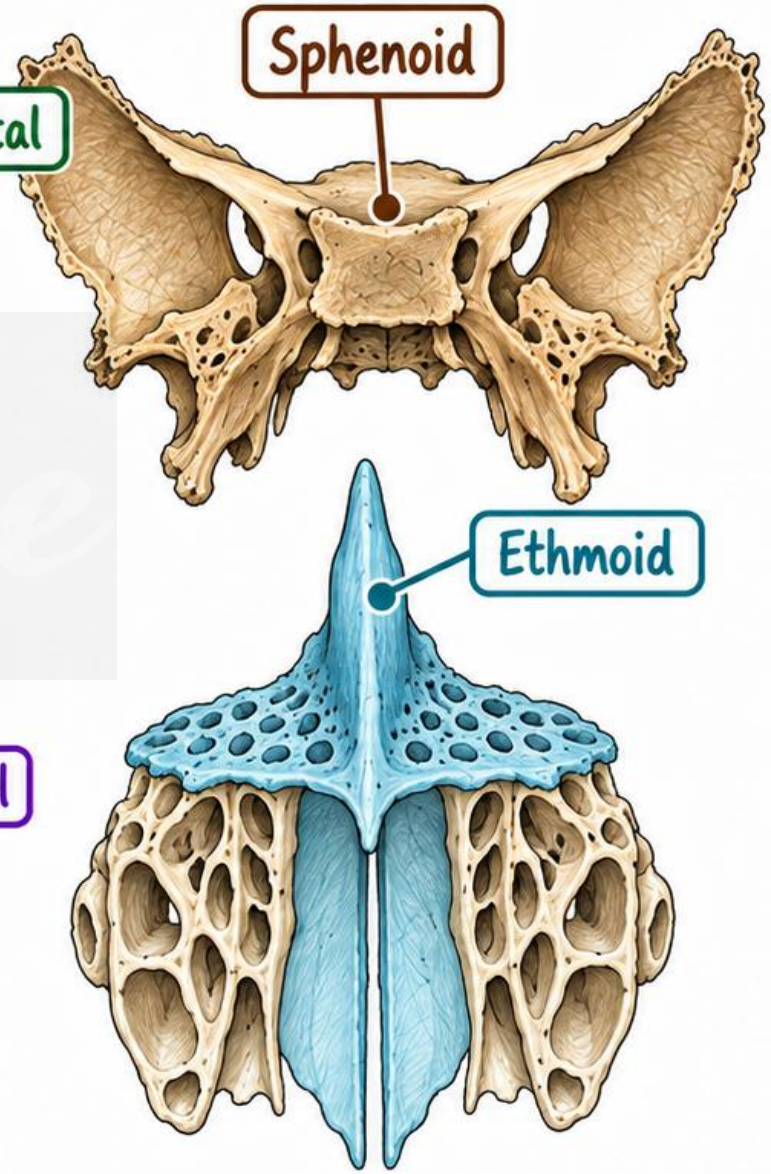
Frontal: 1
Parietal: 2
Temporal: 2
Occipital: 1
Sphenoid: 1
Ethmoid: 1

Paired bones occur on the right and left sides.

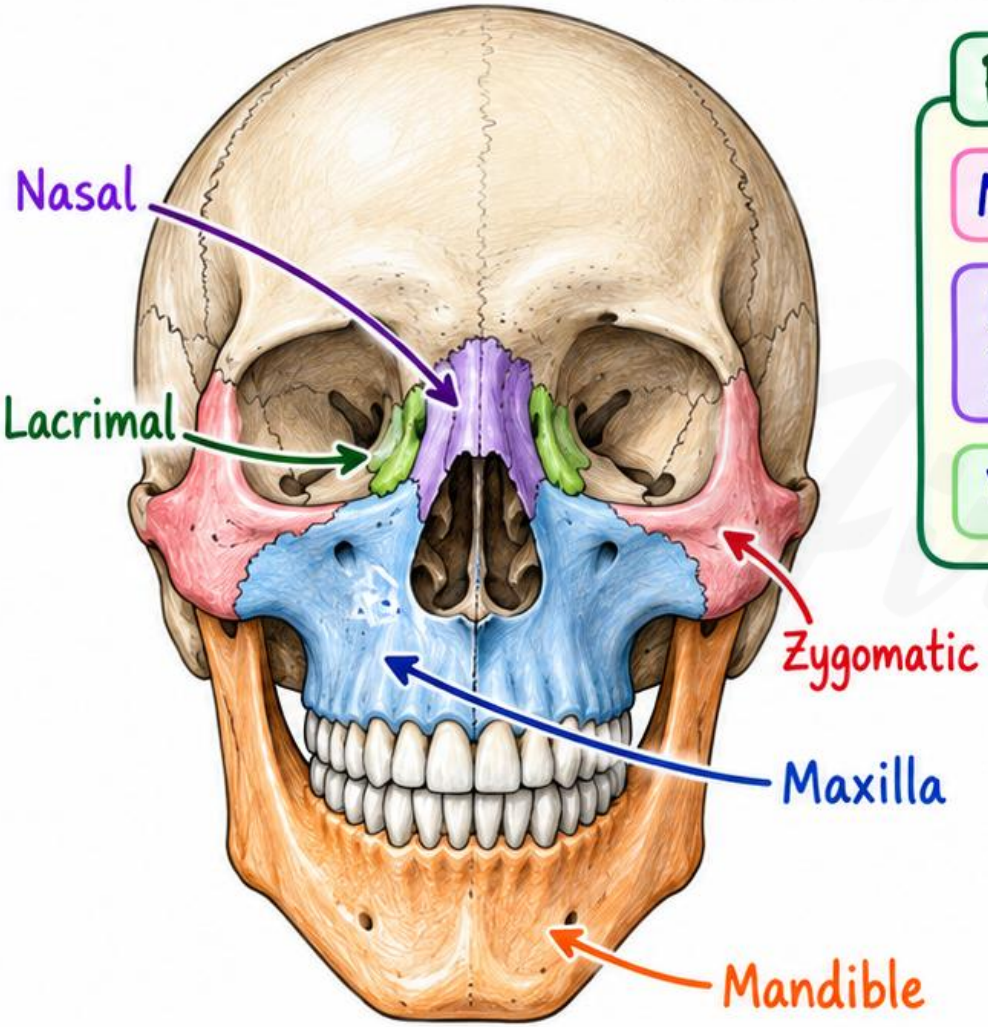
Most skull bones are joined by sutures.

The skull also provides muscle attachments and supports the face.





FACIAL BONES

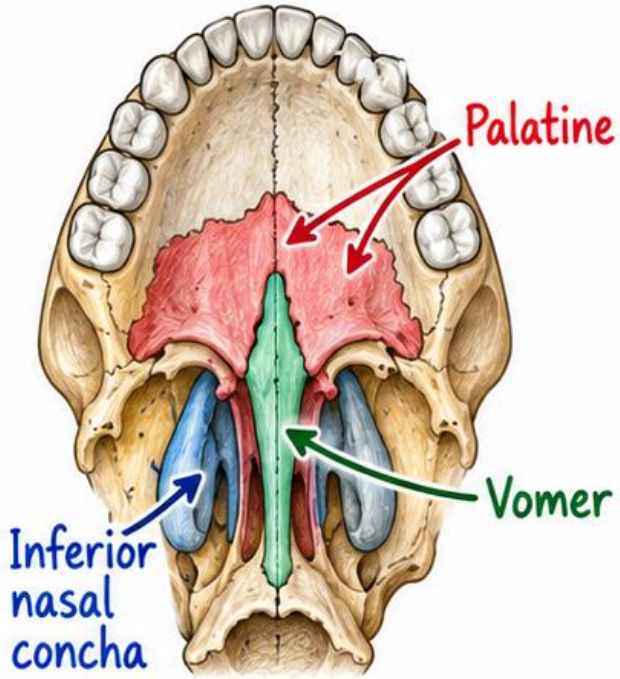


FOURTEEN FACIAL BONES

Maxillae: 2; Zygomatic: 2; Nasal: 2

Lacrimal: 2; Palatine: 2; Inferior nasal conchae: 2

Vomer: 1; Mandible: 1



Shape the face, support teeth and contribute to the nasal and orbital cavities.

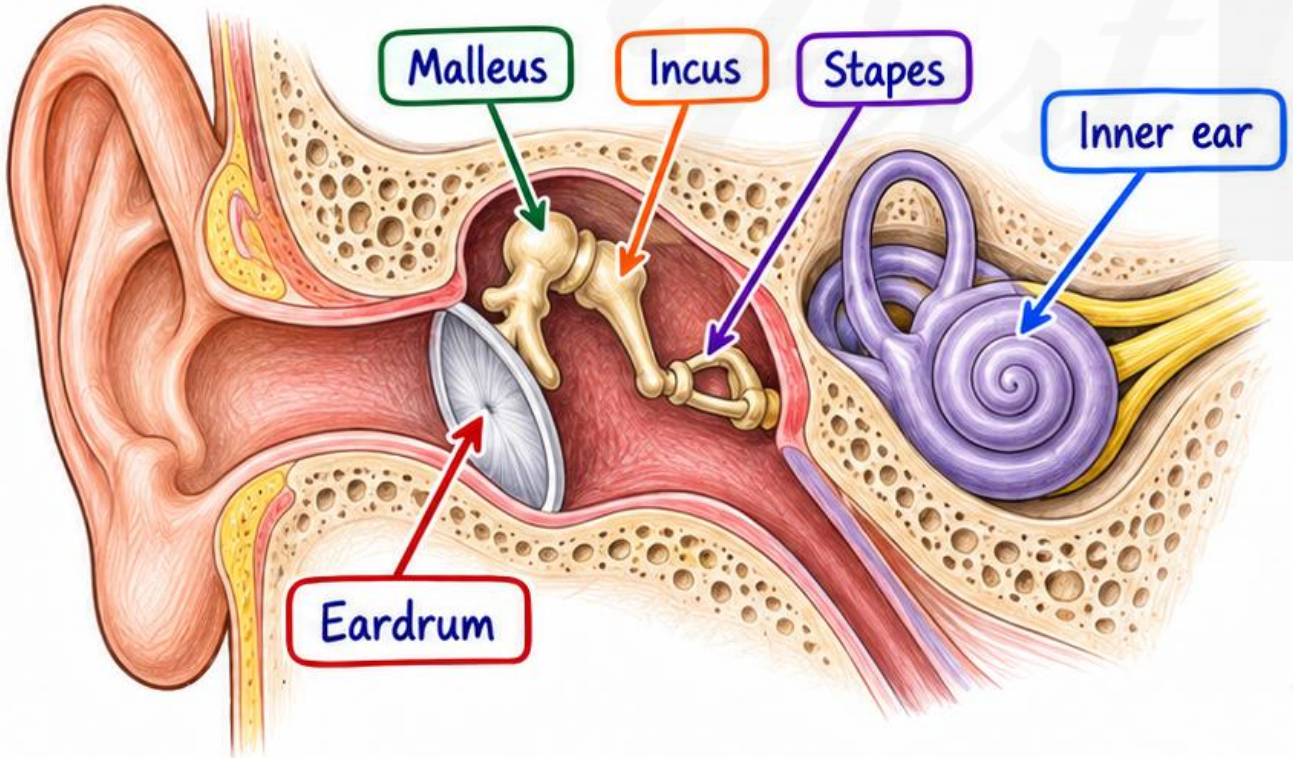
The mandible forms the lower jaw and moves during chewing.

Cranial bones 8 + facial bones 14 = skull bones 22.

AUDITORY OSSICLES AND HYOID

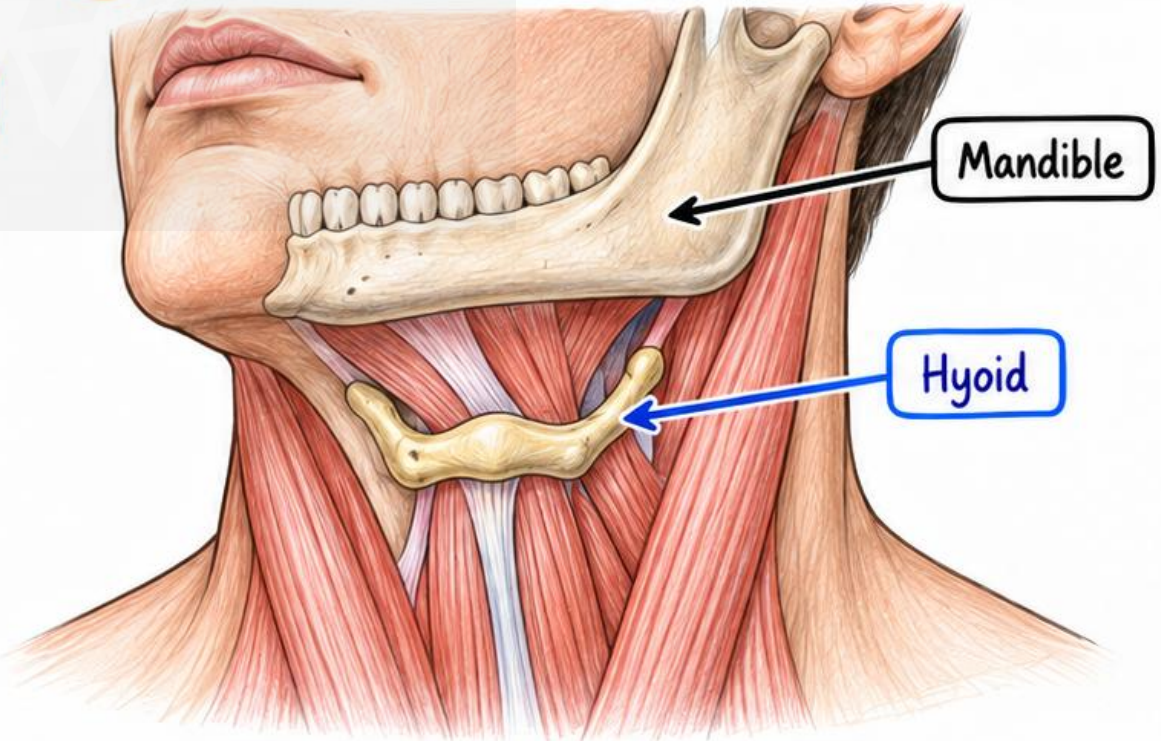
AUDITORY OSSICLES

1. Three small bones in each middle ear: malleus, incus and stapes.
2. Two ears contain six ossicles in total.
3. Transmit vibrations from the eardrum toward the inner ear.



HYOID

1. One U-shaped bone in the neck.
2. Supports the tongue and provides attachment for muscles involved in swallowing.
3. It is not directly joined to another bone.



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