

Human Anatomy & Physiology

Bones of the Axial Skeleton  
And Their Markings

VERTEBRAL COLUMN:

**Be able to tell difference between:**

Cervical vertebrae

Atlas

Axis

Thoracic Vertebrae

Lumbar Vertebrae

Sacral Vertebrae

Coccygeal Vertebrae

**Know the following markings on the bones:**

Cervical vertebrae

spinous process (Bifid)

vertebral foramen

lamina

pedicle

transverse process

transverse foramen

superior and inferior articulating surfaces

body

Axis (“no” bone)

All the above plus:

Dens(odontoid process)

Articulates with ?

Atlas (“yes” bone)

Anterior and posterior arches

Transverse process and foramina

Articulates with ?

Thoracic Vertebrae

spinous process

vertebral foramen

intervertebral notch (forms half of opening for spinal nerves)

lamina (2)

pedicles (2)

transverse process

superior and inferior articulating surfaces

articulating surfaces for ribs (facets & demifacets)

body

Lumbar Vertebrae

spinous process

vertebral foramen

intervertebral notch (forms half of opening for spinal nerves)  
lamina (2)  
pedicles (2)  
transverse process  
superior and inferior articulating surfaces  
body

Sacral Vertebrae

Median sacral crest  
Dorsal sacral foramina  
Sacral canal  
Surface for articulation w/ Ilium (Sacroiliac joint)  
Transverse lines  
Anterior sacral foramina

Coccygeal Vertebrae (coccyx)

No markings to know

Sternum (3 parts)

Manubrium  
Body  
Xiphoid process

Ribs

Head  
Neck  
Shaft  
Costochondral border & costal cartilage  
Costal groove  
Articular facets (for body of verts)  
Tubercle (for spinous pr of verts)  
Angle