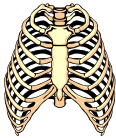


## Bio& 241 (A&P) Unit 2 Lab 2: The Axial Skeleton



### VERTEBRAL COLUMN-

*You need to be able to distinguish  
Left and right bones and processes.*

Special Features

#### Normal Curves

Primary:

Thoracic  
Sacral

Secondary:

Cervical  
Lumbar

#### Abnormal Curves

Kyphosis  
Lordosis  
Scoliosis

VERTEBRAL COLUMN BONES [26]

#### Vertebra (general features)

Body  
Neural arch  
    Pedicles  
    Laminae  
Spinal (or vertebral) foramen  
Transverse processes  
Spinous process  
Superior articulating processes  
Inferior articulating processes  
Intervertebral foramen

#### Cervical vertebrae [7]

Transverse foramen  
Atlas (1st cervical)  
    Superior articular surface  
    Inferior articular surface  
Axis (2nd cervical)  
    Ondontoid process (or  
    dens)

#### Thoracic vertebrae [12]

Rib facets or demifacets

#### Lumbar vertebrae [5]

Lack rib facets and transverse  
foramina

#### Sacrum [1]

Fused bone consisting of 5  
vertebrae  
Sacral promontory  
Sacral foramina (pelvic & dorsal)  
Auricular surface

#### Coccyx [1]

Fused bone consisting of 3-5  
vertebrae

THORACIC BONES [25]

#### Sternum [1]

Manubrium  
Body (or gladiolus)  
Jugular (or suprasternal) notch  
Xiphoid process

#### Ribs [12 pair]

Head  
Neck  
Tubercle  
Body (or shaft)  
Costal groove  
Costal cartilages

#### Types of ribs

True ribs (1-7)  
False ribs (8-12)  
Floating ribs (11-12)