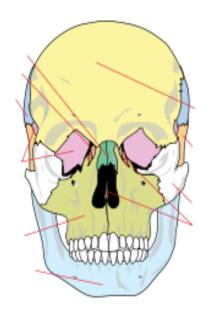
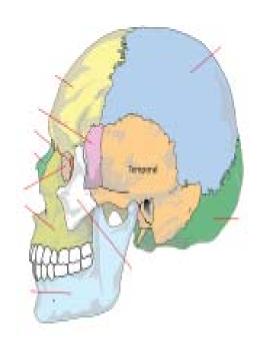
## **Axial Skeleton**

What bones make up the axial skeleton? \_\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

# Skull



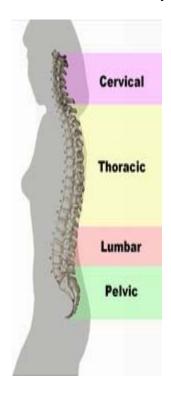


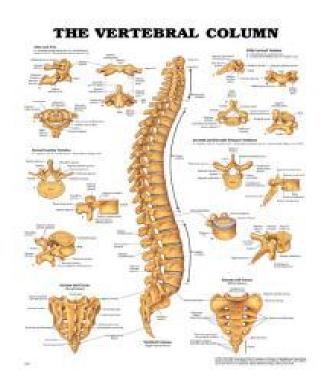
Bones (place number on correct bone):

- 1. Frontal
- 2. Parietal
- 3. Occipital
- 4. Temporal
- 5. Zygomatic
- 6. Sphenoid
- 7. Nasal
- 8. Ethmoid
- 9. Lacrimal
- 10. Maxilla
- 11. Mandible

# Vertebral Column

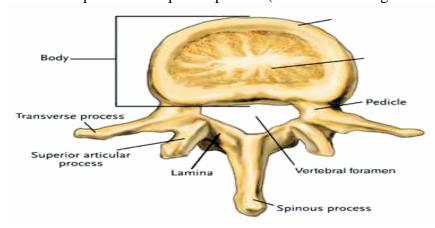
The vertebral column contains 33 bones including: 7 cervical, 12 thoracic, 5 lumbar, 5 fused sacral and 4 fused coccyx bones.





### All vertebrae have the following:

- Body (for weight bearing)
- Articular process (to anchor adjacent vertebrae)
- Pedicles and laminae (increase size of vertebral foramen)
- Transverse process and spinous process (for muscle and ligament attachment)



# Features of Vertebrae

Vertebrae	Picture	Body	Spinous Process	Other Features
Atlas (C1) Axis (C2)	Atlas (C1)  Dens Axis (C2)	Atlas=No body Axis=Body	Atlas= No Process Axis= Bifid process	Both= Transverse foramen  Axis= Dens/odontoid process
Cervical	Pedicial Parametria process  Pedicial Process  Process  Process  Superior S	Small body	Short, bifid process	Transverse foramen (for vertebral artery) Triangular foramen
Vertebra Prominens (C7)	Transcere process  Superior stricted auflect	Body	Longest process, but not bifid	
Thoracic	Thoracic Vertebrae  Axial (Overhead) View  Lateral (Side) View	Heart-shaped body	Long, downward process	Costal facets on body for head of rib  Costal facet on transverse process for tubercle of rib
Lumbar	Lumbar Vertebrae  Axial (Overhead) (Side) View View	Kidney-shaped body	Short and flat	
Sacral and Coccyx	Pedicles  Pedicles  Pars lateralis  Sacral processes)  Pedicles  Pars lateralis  Coccyx	Body	Fused making medial sacral crest	Coccyx attached to inferior end

## Ribs

#### Ribs

- \* Know the parts; head, neck, tubercle, facets, angle, shaft, costal groove
- \* True ribs: 1<sup>st</sup>- 7<sup>th</sup> pairs attach directly to the sternum through their own costal cartilage
- \* False ribs: 8<sup>th</sup>, 9<sup>th</sup> & 10<sup>th</sup> indirect connection with the sternum
- \* Floating ribs: 11th and 12<sup>th</sup> end in the posterior abdominal musculature
- \* Typical ribs: 3rd-9<sup>th</sup>, have all features
- \* Atypical ribs: 1<sup>st</sup>, 2<sup>nd</sup>, 10<sup>th</sup> & floating ribs don't have all the features

Costal margin - the lower edge of the chest (thorax) formed mostly by the false ribs - specifically, from the seventh rib to the tenth rib.

# Head? Facets? Neck? Tubercle? Angle? Shaft? Administration for temperase process of websites Fight or left??