

The Skeletal System

Generally divided into two parts, the skeleton consists of the axial skeleton and the appendicular skeleton.

The Axial Skeleton

The axial skeleton comprises the skull, vertebral column, ribs, and sternum. The skull forms a protective shell for the brain and sensory organs, with the lower part of the skull giving form to the face. The base of the skull joins with the first vertebra of the spine, the atlas, the articulation of the two bones enabling openings in the skull accommodate the eyes, ears, nose, and mouth. The bones of the skull have unique names, called *crania*, which interlock and are then firmly held together with fibrous connective tissue.

The vertebral column begins as a series of bones, called *vertebrae*, each separated by a cushioning pad of fibrocartilage called the *intervertebral disk*. While individually each vertebra has extremely limited movement, collectively the vertebrae create a highly mobile unit. When required, the spine becomes a rigid axis, held firm by the back muscles, so the activities such as lifting can be performed.

The atlas of the clavicle caps the neck with the vertebrae at the back and reaches the breast and lungs. The first seven ribs, the *true ribs*, join at the breast to the sternum. The next three ribs, the *false ribs*, join to one another and then attach to the last true rib. The remaining two ribs, the *floating ribs*, do not attach to the sternum.



The Appendicular Skeleton

The appendicular skeleton includes the limb bones of the arms and legs, and the girdles that connect them to the axial skeleton, the shoulder girdle and the pelvic girdle. The bones of the arm (humerus, radius, and ulna) and the leg (femur, tibia, and fibula) are all long bones.

With a similar arrangement, the bones of the hands and feet comprise 14 bones in the fingers and toes, the wrist has 8 bones, the ankle has 3, and there are 5 bones in both the palm of the hand and the sole of the foot.

Due to the load-bearing requirements placed on the lower limbs, the pelvic girdle is joined to the axial skeleton at the sacrospinous joint, a relatively rigid joint, whereas the connection of the shoulder girdle is the less restricting, being directly connected to the rib cage by muscle, its only stabilizing connection provided by the collar bone.



Atlas Of The Human Body

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Atlas of the Human Body Ken W. S. Ashwell, 2017-02

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