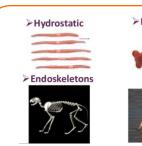
Vocabulary

skeleton an internal framework that supports an organism's body vertebrate organisms with a backbone Invertebrate organisms without a backbone Endoskeleton a skeleton which is on the outside of an organism Exoskeleton a skeleton which is on the inside of an organism hydrostatic skeleton a flexible skeleton without bones skull the large bone protecting the brain ribcage the bony frame around the ribs protecting the chest vertebrae series of smaller bones that protect the spinal chord patella your knee cap

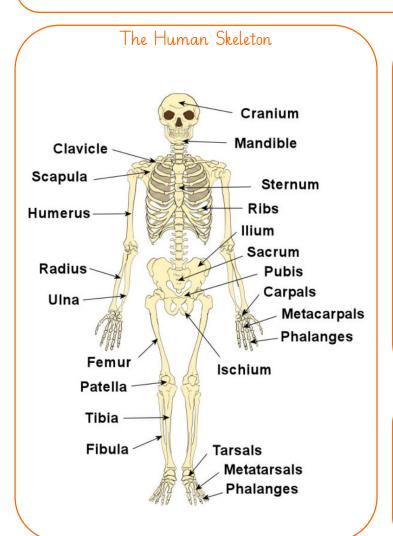
Biology

Science Y4: Animals including Humans (Skeletons)









Key knowledge

Humans and some other animals have an internal skeleton made of bone. These animals all have a backbone (also known as the spine) made up of bones called vertebrae. These animals are therefore called vertebrates. Mammals, fish, birds and reptiles are all vertebrates.

Insects have an external skeleton (a hard outer covering) which is known as an **exoskeleton**. The skeleton has three functions. It provides support (maintains the animal's shape), helps with movement and offers protection.

The human skeleton (and that of most other vertebrates) contains a **skull** to protect the brain, ribs to protect the heart and lungs, and the spine to protect the **spinal chor**d.

The bones in the skeleton are joined at **join**ts. There are different types of joints which allow different degrees of movement. These include fixed joints (the bones of the skull allow very little or no movement), sliding joints (between the vertebrae), hinge joints (in the elbow and knee) and the ball and socket joint (the hip).

Links to prior learning and next steps:

Year I: Animals

Year 2: Growth

Year 3: Living Things

Links to other subjects:

English: write a

non-chronological report

Maths: