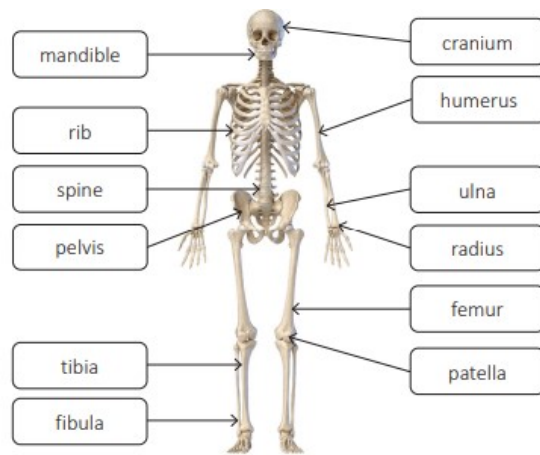


Animal nutrition and the skeletal system

Knowledge

The human skeleton Muscles Glossary invertebrate An animal without a spine. nutrient A substance that plants and animals need to grow, live and stay healthy, including vitamins and minerals. vertebrae One of the small bones that form the spine. vertebrate An animal with a spine. The adult human skeleton is a frame of 206 bones that supports the body and gives it shape. It allows the body to move and protects soft, internal organs like the brain, heart and lungs



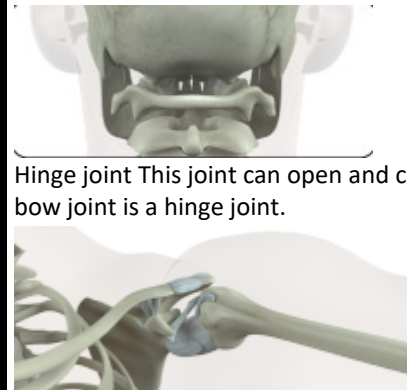
Most vertebrates have a similar skeleton to humans, with many of the same bones. However, the position or size of the bones vary in each skeleton.

Skeleton types An endoskeleton is found inside all vertebrates. It grows with the body and offers support but no protection to the outside of the body. An exoskeleton is found outside the body of invertebrates. It offers protection for soft body parts but does not grow with the animal and does not support a large body size. Some invertebrates have no skeleton. They can squeeze into small spaces, but have no protection from injury.

Important jobs and people

Joints major bones in the human skeleton A joint is a place where two or more bones meet and connect. Vertebrate skeletons have many bones connected by joints to move and bend body parts in different directions. Three types of joints in the human skeleton include the:

Pivot joint This joint only allows limited rotating movements. The top two spinal vertebrae form a pivot joint.



Ball and socket joint This joint allows movement in all directions. The shoulder joint is a ball and socket joint.



Vocabulary

Glossary

Invertebrate -An animal without a spine.

Nutrient -A substance that plants and animals need to grow, live and stay healthy, including vitamins and minerals.

Vertebrae -One of the small bones that form the spine.

Vertebrate -An animal with a spine.

