

Knowledge Organiser

Year Group	Subject	Topic
3	Science	Skeletons

The Big Picture

We are learning about skeletons in humans and animals. Skeletons support our bodies, protect important organs, and help us move. Some animals do not have skeletons inside their body, and some have skeletons on the outside.

Enquiry Question

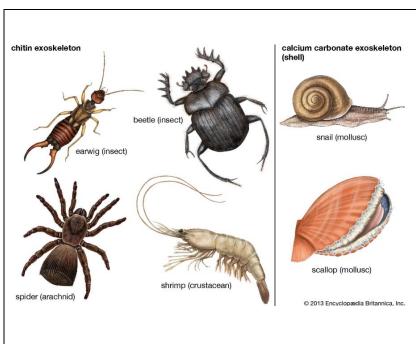
How can animals be sorted and grouped based on their skeletons?

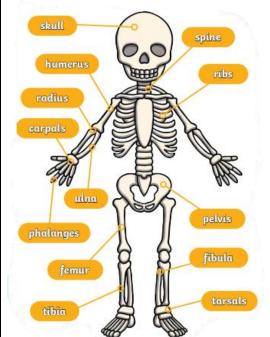
Insect exoskeleton.

Key Vocabulary	What You Will Learn
Skeleton – a collection of bones that supports movement and	The human skeleton is made up of 206
protects organs.	bones.
Skull – protects the brain.	
Spine – bones in the back that support movement. Ribcage – curved bones in the chest protecting the heart and	Key bones: skull, spine, ribcage, pelvis, femur.
lungs.	lemui.
Pelvis – bowl-shaped bones connecting the spine to the legs.	Skeleton functions:
Femur – long bone in the upper leg.	
Exoskeleton – skeleton on the outside of an animal's body.	o Support – holds the body
Mammal, bird, fish, amphibian, reptile – groups of animals with	upright.
skeletons.	 Protection – skull protects brain, ribcage protects
Insect – small animal with 6 legs and an exoskeleton.	heart and lungs.
Key Questions	 Movement – bones and
	joints help us move.
How many bones are in the human skeleton?	
 What are the 3 main functions of the 	Animal skeletons: mammals, birds, fish,
skeleton?	amphibians and reptiles all have skeletons
	inside their bodies.
 Where is the skull, femur, pelvis, ribcage, and 	
spine?	Some animals have no spine (e.g. slugs,
 Which animals have skeletons inside their 	snails).
bodies?	Some animals have an exoskeleton – a
What is an exoskeleton?	hard skeleton on the outside (e.g. insects,
Are all skeletons the same?	crabs).
• Are all skeletons the same?	
	Skeletons are not all the same – different

animals have different bone structures.

Human skeleton





Animal skeletons (bird, fish, mammal, reptile)

