Animal skeletons

All animals have skeletons of one sort or another. Mammals, birds, reptiles, amphibians and fish have bony skeletons. These skeletons come in all shapes and sizes, but they also share common features.

Look at these skeletons and see how they differ from each other.

Why do you think they look this way?

Can you spot any similarities between them?

The museum holds hundreds of skeletons - of fish, amphibians, reptiles, birds and mammals.



The tuna has no arms or legs, but you can see fins and a tail. It has a long flexible spine for swimming.



The frog has well developed back legs, modified hip bones and a reduced spine which allows it to jump and land easily.



The tortoise's vertebrae (back bones) and ribs are fused and modified to form its shell.



Snakes have no arms or legs, but they can have up to five hundred vertebrae in their flexible spine.



Tuataras look like lizards, but are not related to them. Like all reptiles, tuataras hold their legs out to the side of their body.



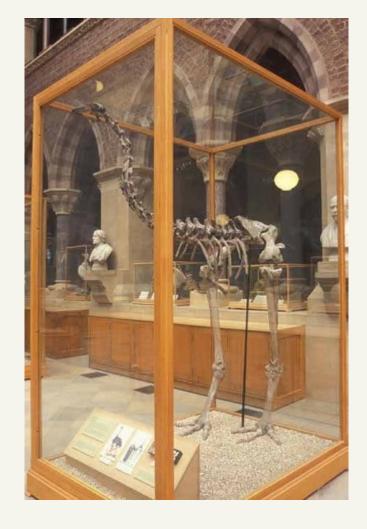
Crocodiles have large jaws, sharp teeth and very strong skulls their powerful bite helps them hunt.



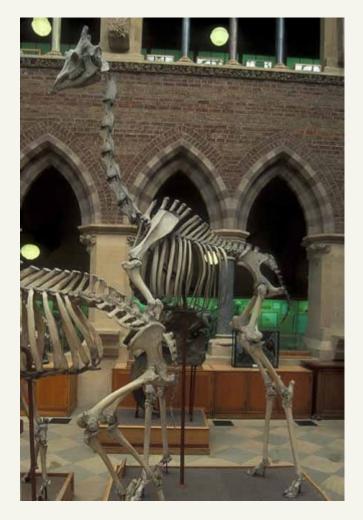
The pelican is a sea bird that catches fish in its massive bill. Like all birds that fly, they have large wing bones.



The moa is an extinct flightless bird that looked like an ostrich. It is also the only known wingless bird, but it could run on its long legs.



The giraffe has long legs and a very long neck to reach to the tops of trees and find the best leaves.



The tiger is a big cat which has a flexible spine that allows it to pounce on its prey, and sharp canine teeth to bite with.



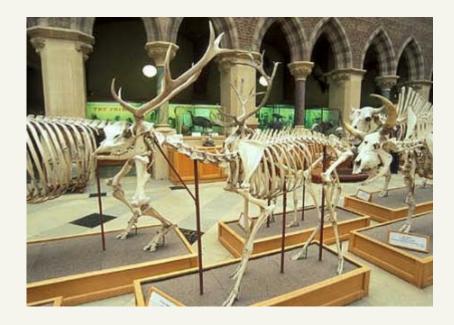
Like all other mammals, the pig has legs that it holds beneath its body. Is this different to reptiles like the tuatara?



This bull has horns.
These horns have a bony core, and are covered with keratin - your hair and fingernails are made of keratin.



A male deer uses its antlers to fight other deer. Each year the antlers fall off and the animal has to grow a new set.



Dolphins are mammals adapted to life in the sea. Their front legs are modified into flippers, they have no back legs.



Whales also live in the sea. This whale has no teeth, it uses a 'sieve' called baleen to filter its food from the water.



Test yourself!

Look at the pictures of the skeletons in the Museum - can you fill in the blanks?

The Museum holds hundreds of skeletons - you can see the five groups of vertebrates, f_ _h, amph_bi_ ns, r_pt_les, b_ _ds and m_mm_ls.

The tuna skeleton has no arms or l_gs, but you can see its f_ns and ta_l. It has a long flexible spine for swi_ _ing.

The frog has well developed b_ _k legs, modified hip b_ n _ s and a shortened spine allowing it to j_ _p and land easily.

The tortoise's vertebrae (b_ _k b_ n _ s) and ribs are fused and modified to form its sh_ _l.

Snakes have no a_ms or l_gs, but they can have up to five h_ndr_d vertebrae in their flexible spi_e.

Tuataras look like I_za_ds, but are not related to them. Like all r_pt_les, tuataras hold their I_gs out to the side of their body.

Crocodiles have large j_ws, sharp t_ _th and very strong sk_ _ls - their powerful bite helps them h_ nt.

The pelican is a sea b_ _d that catches fish in its massive b_II, like all birds that f_y, they have large w_ _g bones.

The moa is an extinct flightless b_ _d that looked like an o_tr_ich. It had no w_ _gs, but could run on its long l_gs.

The giraffe has lo_g legs and a very long n_ _k to reach to the tops of tr_ _s and find the best le_v_s.

The tiger is a big c_t which has a flexible sp_ne allowing it to pounce on its prey, and sharp c_n_ne teeth to bite with.

Like all other m_mm_ls, the pig has legs that it holds beneath its body. Is this different to r_pt_les like the tuatara? YES or NO _____

This bull has horns. These horns have a bony core, and are covered with keratin - your h_ir and f_ng_rn_ils are made of keratin.

A male deer uses its a_tl_rs to fight other deer. Each year the antlers fall off and the d_ _r has to grow a new set.

Dolphins are mammals adapted to life in the s_a. Their front legs are modified into fli_ _ers, they have no back l_gs.

Whales also live in the s_a. This whale has no t_e_h, it uses a special 'sieve' called baleen to filter its f_ _d from the water.