

Do you like to move it move it?

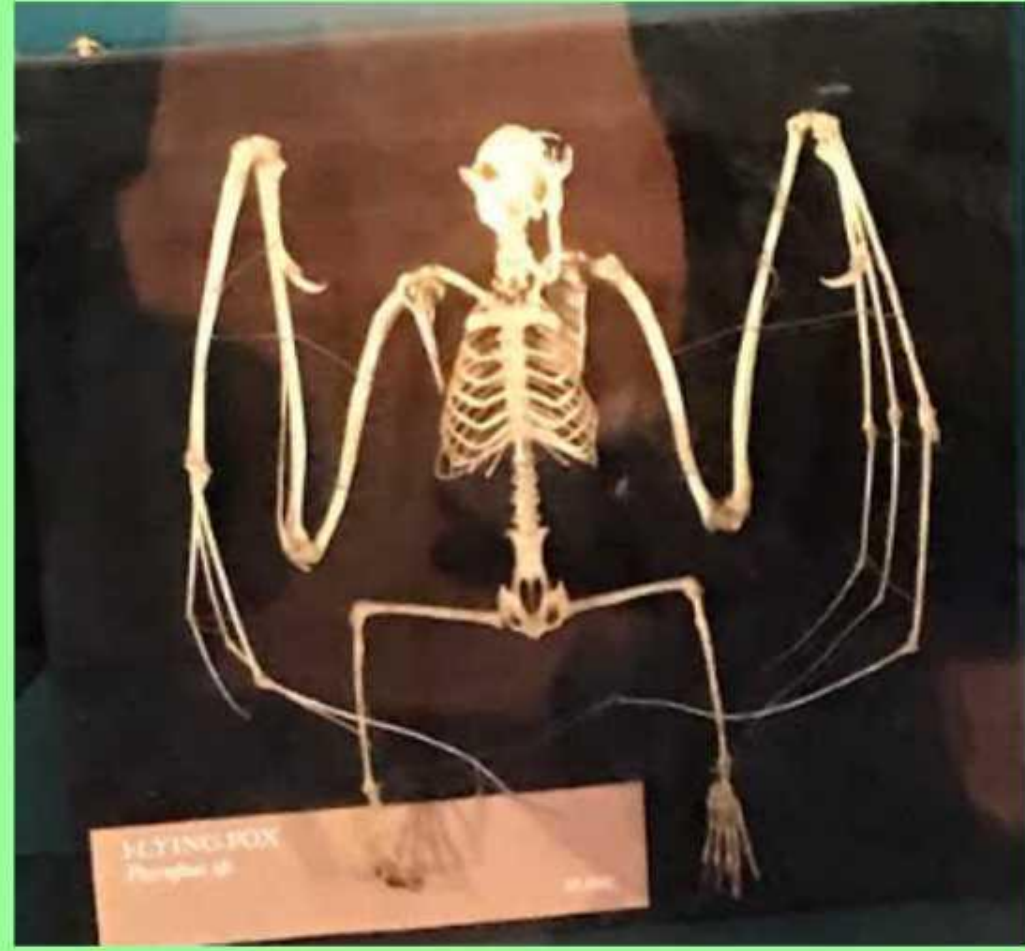
Science - Animals including humans





Are all skeletons the same?

Can you guess what these animals are from their skeleton?





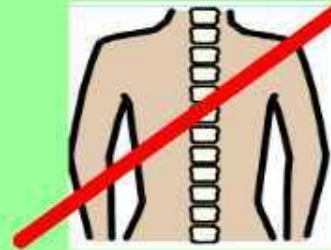
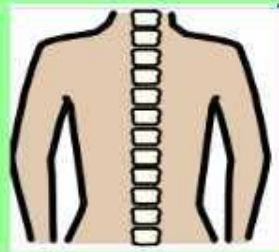
**Look at all those
vertebrae!**

L.O: To sort animals based on their skeletons

vertebrate

or

invertibrate?

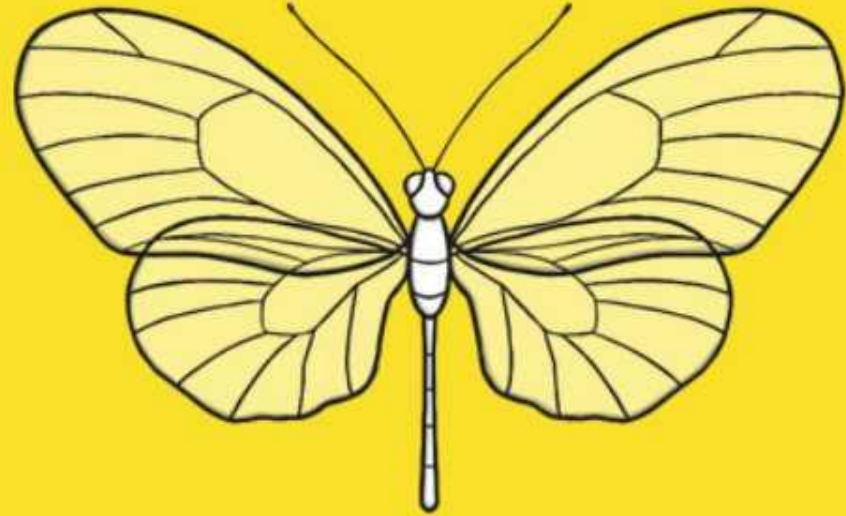


Vertebrates and Invertebrates

The difference between vertebrates and invertebrates is simple!



vertebrate

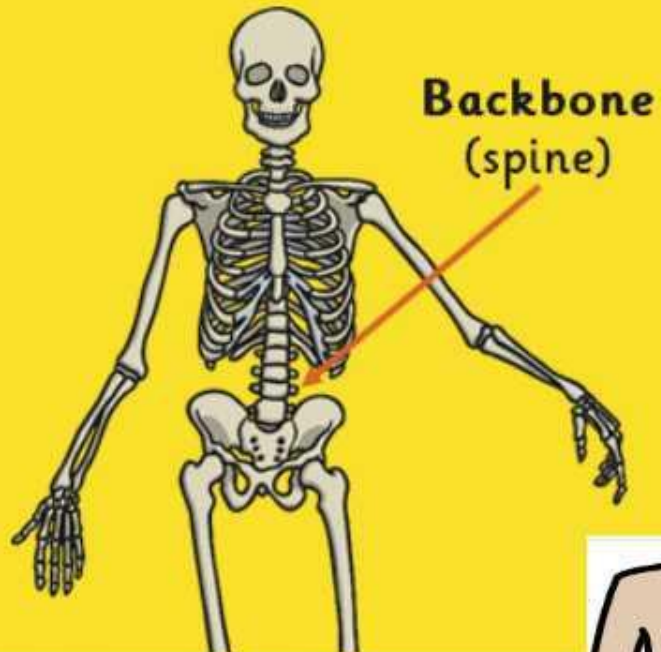


invertebrate

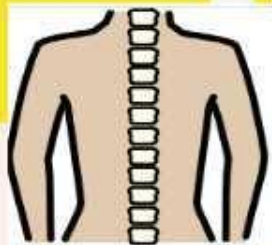
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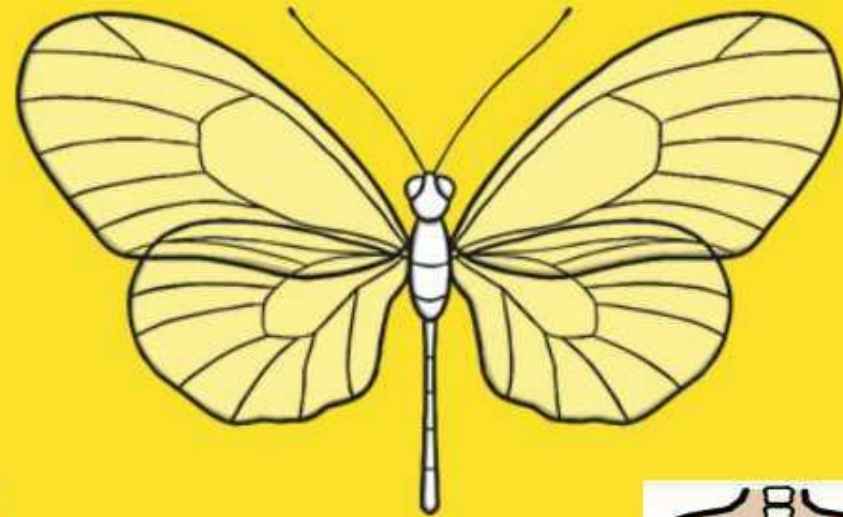
Vertebrates have a backbone (spine)...



vertebrate



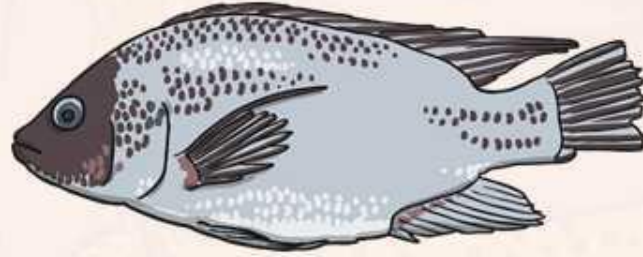
...and invertebrates don't



invertebrate

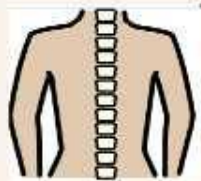


L.O: To sort animals based on their skeletons



vertebrate

invertebrate



L.O: To sort animals based on their skeletons

There are three different types of skeletons-

endoskeletons - skeletons on the inside

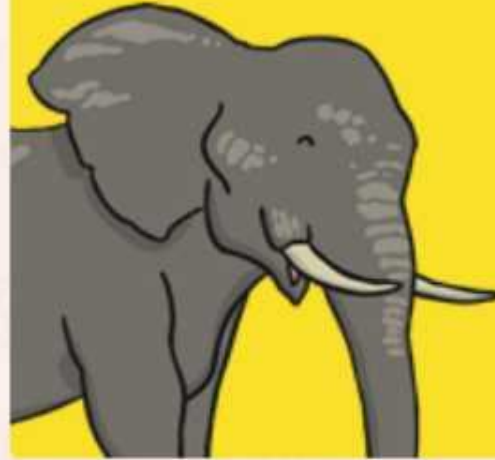
exoskeletons - skeletons on the outside

hydrostatic - no skeleton! Just wobbles

L.O: To sort animals based on their skeletons

Endoskeletons

Animals with endoskeletons have skeletons on the inside of their bodies.



Endoskeletons are lighter than exoskeletons.



As the animal grows so does their skeleton.



[click me](#)

Exoskeletons

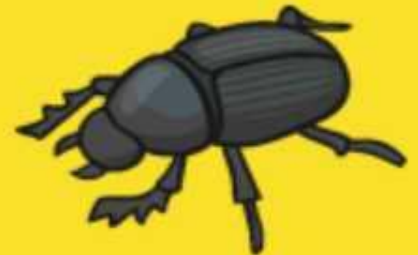
Animals with exoskeletons have their skeletons on the outside!



Watch the following clip to see how they shed their skeletons (click the crab below).



Exoskeletons do not grow with the animal. Therefore the animal has to shed its skeleton and produce a new one!



L.O: To sort animals based on their skeletons

Hydrostatic Skeletons

Animals with hydrostatic skeletons don't actually have any bones!



All animals with hydrostatic skeletons are invertebrates.






Instead these animals have a fluid-filled compartment in their body called a coelom.



Pros and Cons of Different Skeleton Types



Type of Skeleton	Pro	Con
Endoskeleton 		
Exoskeleton 		
Hydrostatic Skeleton 		

Grows with the body
More protection for the body

Does not grow with the body
Body is more flexible

Cannot lift objects
Muscles are less flexible

L.O: To sort animals based on their skeletons

Challenge 1:

Cut and sort your animals into

- Endoskelton
- Exoskeleton (on outside)
- Hydrostatic skeleton (no bones)

Challenge 2:

Add one more animal to each list

Challenge 3:

Write one pro (+) and con (-) for each type of skeleton

