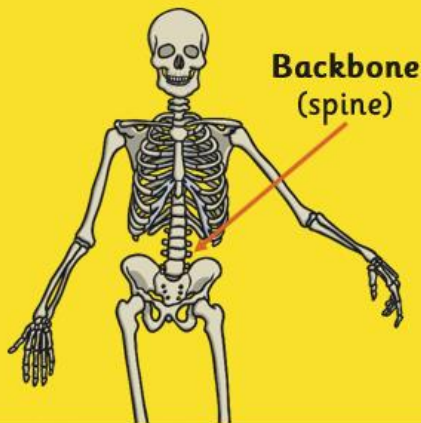


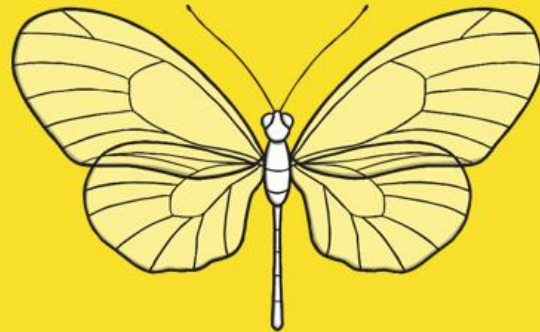
## I can name 3 different types of skeleton

### Vertebrates and Invertebrates

Vertebrates have a backbone (spine)...



...and invertebrates don't



A further classification of skeletons comes from if an animal has a skeleton and where it is.

All vertebrates have an endoskeleton. However invertebrates can be divided again between those with an exoskeleton and those with a hydrostatic skeleton.

vertebrate  
↓  
endoskeleton



invertebrate  
↓  
exoskeleton



↓  
hydrostatic skeleton



Endoskeletons and exoskeletons:

(Scroll down to the video)

<https://www.britannica.com/video/72839/skeleton-animals-support-protection-movement>

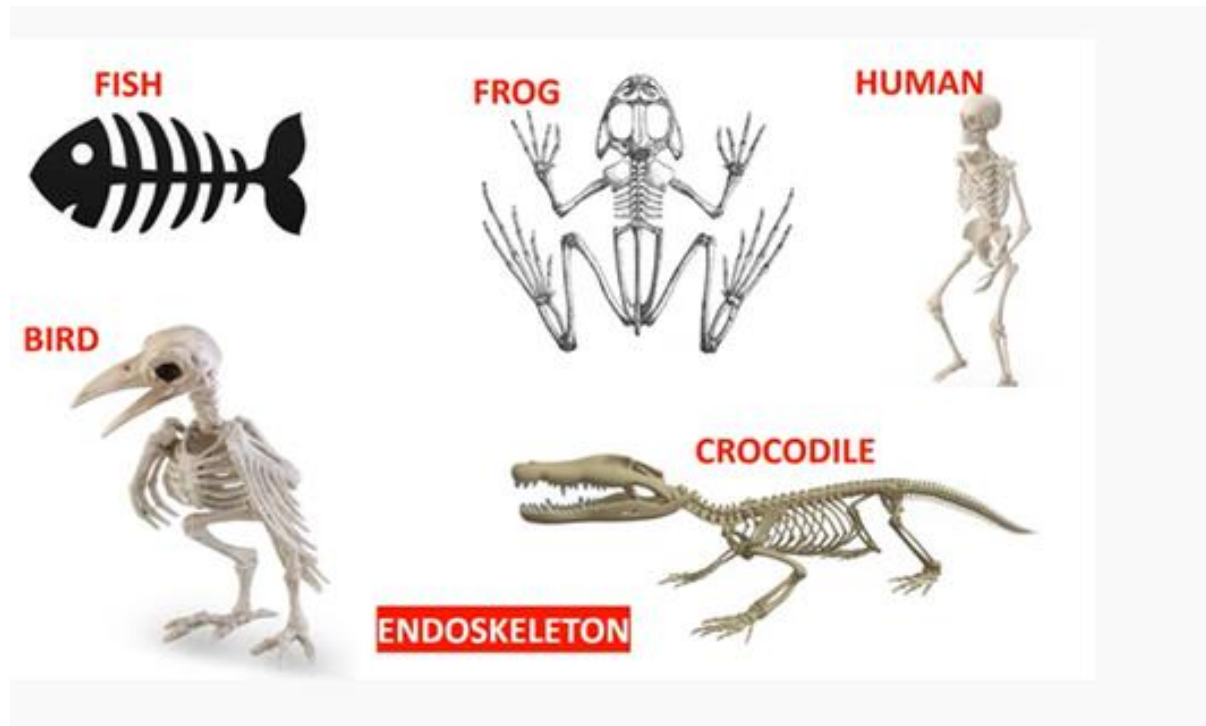
Exoskeleton:

<https://www.bbc.co.uk/bitesize/clips/zmj8q6f>

<https://vimeo.com/37438364>

## Endoskeletons

Some animals have the skeleton on the **inside** of their bodies which are called endoskeletons. Endoskeletons are important as they protect vital organs, are lighter weight and they grow with the animal when it grows.



## Exoskeletons

Some animals have their skeleton on the outside of their body. The difficulty they have is that their skeleton does not grow with the body and therefore has to shed their out shell or exoskeleton and grow or find a new one. In this time where they have no exoskeleton, it leaves them vulnerable to predators.



### Hydrostatic skeleton:

A hydrostatic skeleton is one that contains no rigid, hard structures or bones for support, but rather relies on a fluid-filled cavity surrounded by muscles.

Creatures with hydrostatic skeletons have a relatively flexible shape which often enables them to fit through oddly shaped places for protection.

Creatures with hydrostatic skeletons often do not have the lifting capacity that exo/endoskeleton creatures have. However, they can squeeze between spaces and expand, to allow for a "prying open" movement.

While bones take a long time to heal and may heal improperly, coelomic fluid is made up of mostly water and can be regenerated quickly.



Some animals have an exoskeleton and an endoskeleton like a tortoise with its hard shell and also a skeleton inside.

