Canonbury Home Learning Year 3 Science



Lesson 7

LO: identify that humans and some other animals have skeletons and muscles for support, protection and movement.





If you can, start by watching these clips all about skeletons:

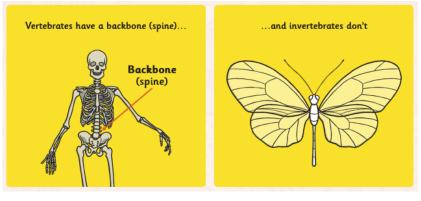
https://www.bbc.co.uk/teach/class-clipsvideo/science-ks2-how-do-muscles-andbones-work/zfgtscw

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

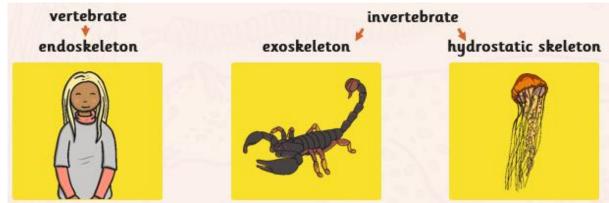
Not all animals have skeletons like ours. We can classify living things depending on if they have a back bone (spine) or not. We call these

vertebrates or invertebrates:

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



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



Endoskeletons

Animals with endoskeletons have skeletons on the <u>inside</u> of their bodies.

As the animal grows so does their skeleton.

Endoskeletons are lighter than exoskeletons.



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Exoskeletons

Animals with exoskeletons have their skeletons on the <u>outside</u>!

Exoskeletons do not grow with the animal. Therefore the animal has to shed its skeleton and produce a new one! Here is a clip of a crab getting rid of his old exoskeleton: <u>https://vimeo.com/37438364</u>

Hydrostatic Skeletons

Animals with hydrostatic skeletons <u>don't actually</u> <u>have any bones</u>!

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

<u>Task</u>: <u>Create a poster or presentation</u> (you can do this using film/power point/purple mash) about the different types of skeletons living things have.</u>

You need to find out at least <u>3 examples</u> of animal that have each skeleton (endoskeleton, exoskeleton, hydrostatic skeleton) and research the <u>pros and cons</u> of each type of skeleton.

Use research to complete this table to help you with your poster:

Type of Skeleton	Pro	Con
Endoskeleton		
Exoskeleton 🛹		
Hydrostatic Skeleton 🌹		
Grows with the body	Does not grow with	Cannot lift objects
More protection for	the body	Muscles are less
the body	Body is more flexible	flexible





