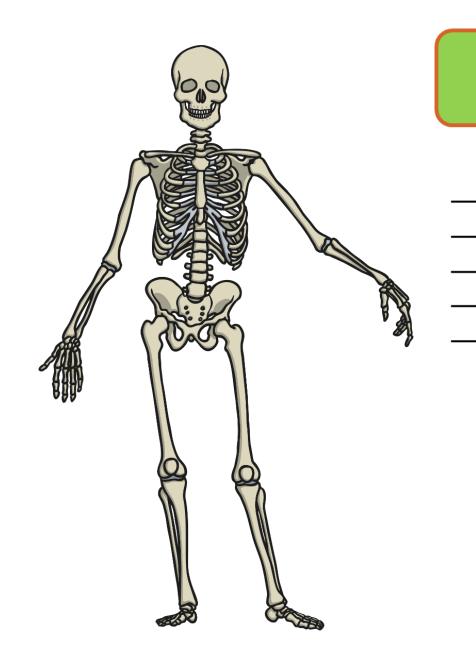
Wider curriculum - Science



Vertebrate 🗸

Invertebrate X

We are going to look at the skeleton of a variety of different living things?

Task I: Research

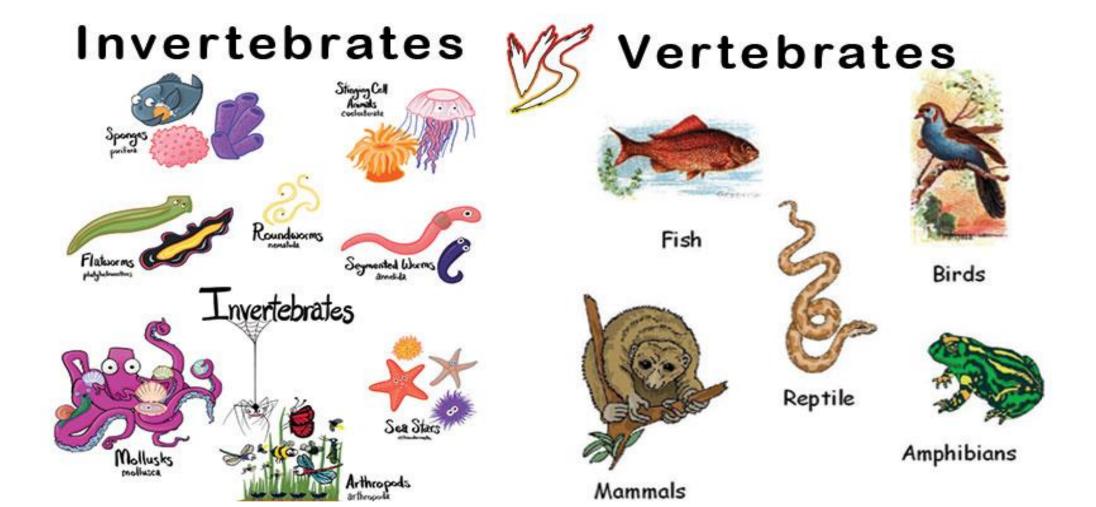
Can you find out what a vertebrate and an invertebrate is? Write a definition for each.

Vertebrate 🗸

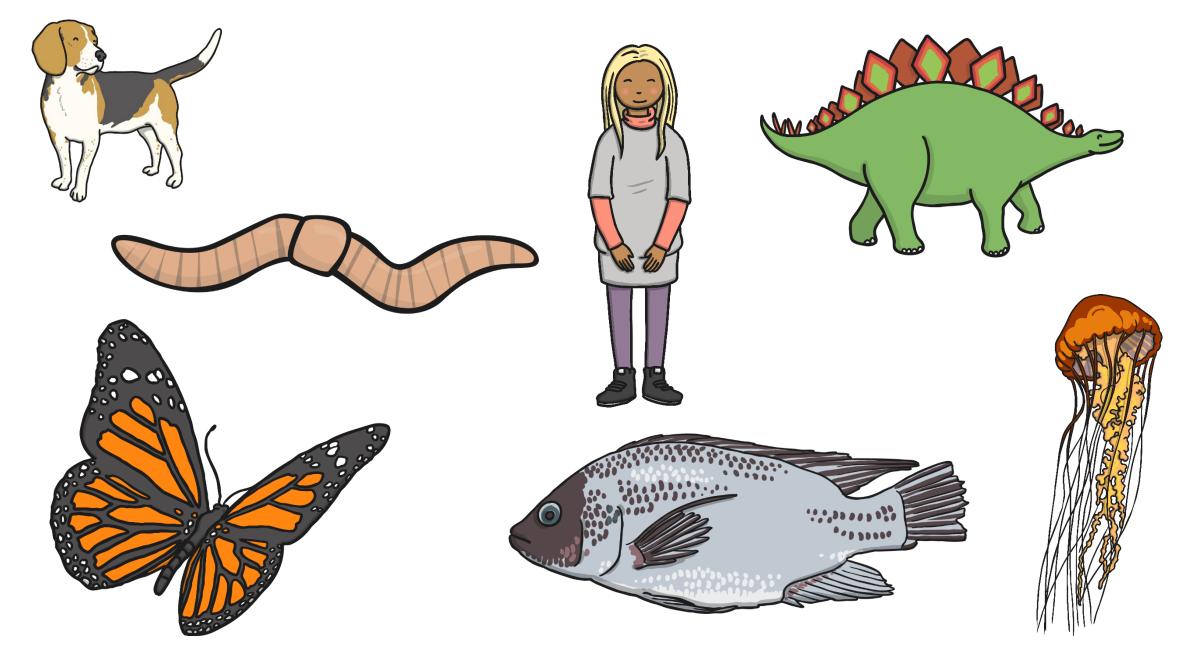
A vertebrate is an animal with a spinal cord surrounded by cartilage or bone. https://www.youtube.com/watch?v=R50Xc1EUHwg

Invertebrate X

An invertebrate is a cold-blooded animal with no backbone. https://www.youtube.com/watch?v=Sr T4skBYNo



Task 2: Sort the animals into 'vertebrate' or 'invertebrate'.



Types of skeleton:

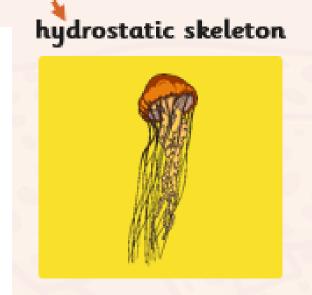


- Animals with endoskeletons have skeletons on the inside of their bodies.
- As the animal grows so does their skeleton.
- Endoskeletons are lighter than exoskeletons.

exoskeleton



invertebrate



- Animals with exoskeletons have their skeletons on the outside!
- Exoskeletons do not grow with the animal.
 Therefore the animal has to shed its skeleton and produce a new one!

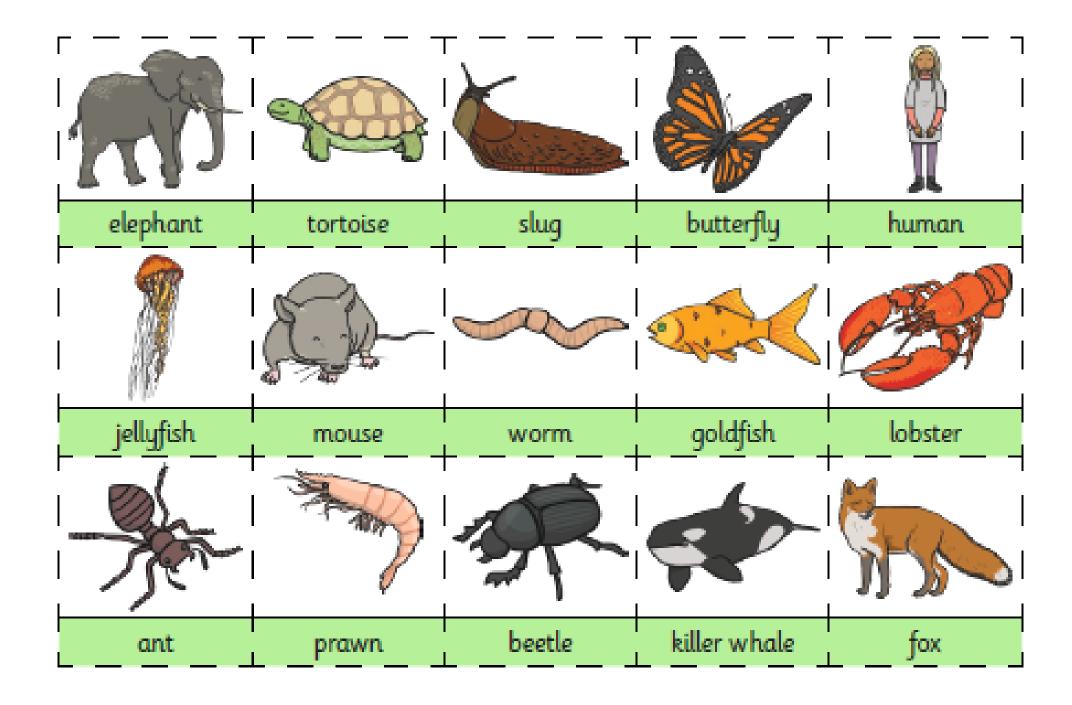
https://vimeo.com/37438364

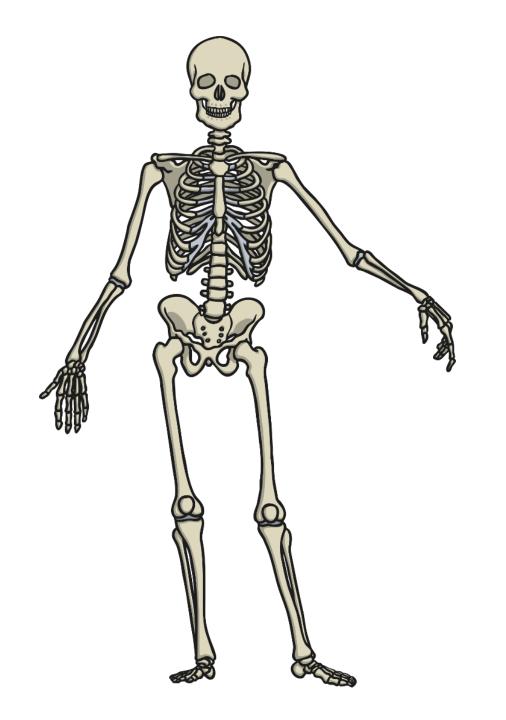
https://www.youtube.com/w
atch?v=D1hkGbR0Ubc

- Animals with hydrostatic skeletons don't actually have any bones!
- Instead these animals have a fluid-filled compartment in their body called a coelom.
- All animals with hydro-static skeletons are invertebrates.

Task 3: Sort the animals Sort the animals on the next page depending on their skeleton type.

Endoskeleton	Exoskeleton	Hydrostatic Skeleton





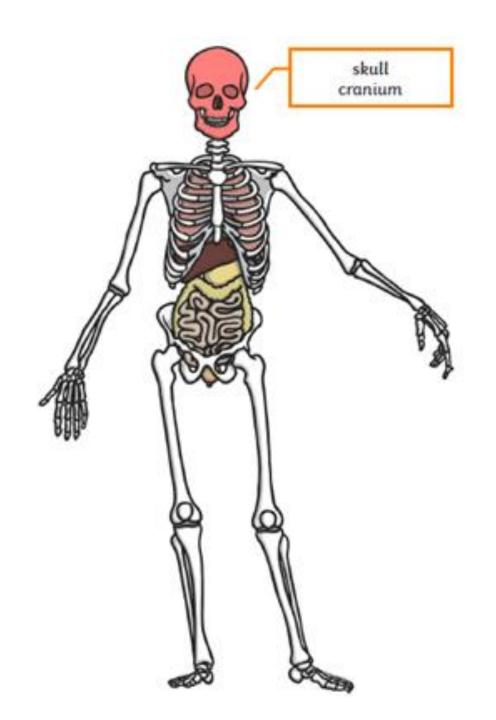
Task 4:

Why do you think we have a skeleton?

How many reasons can you come up with?

What would happen if we did not have a skeleton?

- •
- •
- •
- •
- •
- •



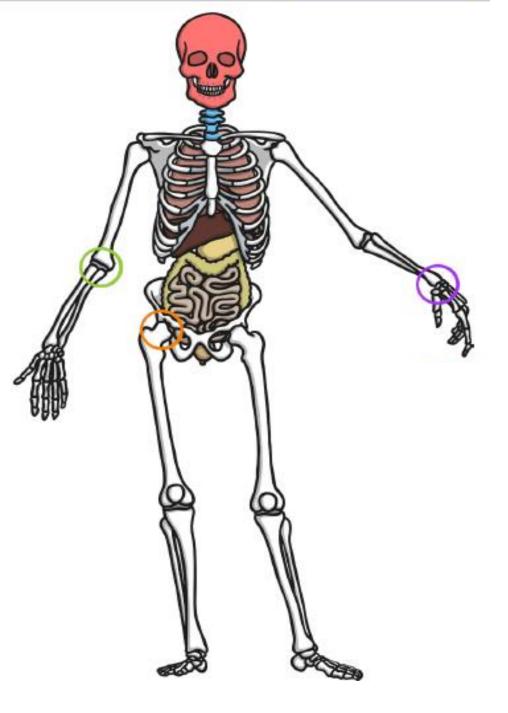
There are 4 main functions of the skeleton:

- 1. Protection
- 2. Shape
- 3. Support
- 4. Movement

https://www.youtube.com/watch?v=vRuh9aBwUdM

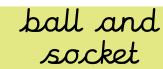
Task 5: On the skeleton, can you find 3 bones that help to protect your organs?

- ١.
- 2.
- 3.



Task 6:

- 1. What is the bone coloured in blue? Think about what you have learnt earlier on.
- 2. What is in the green circle?
- 3. What is in the orange circle?
- 4. What is in the purple circle?
- 5. In each circle is a joint. Do you think you can guess which type of joint is which? (Use the next page to help)





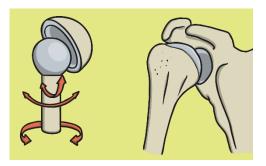
hinge



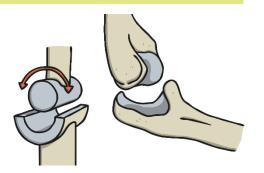
gliding



ball and socket



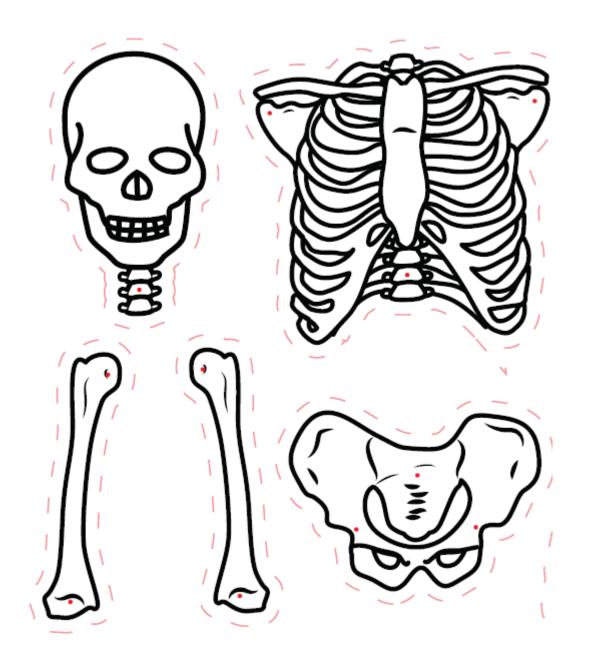
hinge



gliding



Ball and socket joints allow the most freedom of movement. Hinge joints allow flex and extend movements. Gliding joints are also known as 'plane' joints. The bones are shaped to glide over one another and allow for small limited movements in different directions



Task 7:

Print off the Cut and Stick skeleton worksheet from the website. (If you can't, then you can copy and draw your own skeleton).

- 1. Cut up and complete the skeleton.
- 2. Colour in the joints on your skeleton.
- 3. Colour in bones that protect internal organs.
- 4. Name 4 different bones on your skeleton.

Wider curriculum - PSHE

Please find on our website a Returning to School – Life After Lockdown pack.

You do not need to print off the booklet and you don't need to physically complete them if you don't want to.

Instead, you could use a note book to complete some of the task.

It might be nice to talk to people at home and use the questions and tasks as discussion points to chat about coming back to school in September. ©©©

