

Previous knowledge.

- Can notice that animals, including humans, have offspring which grow into adults
- Research and describe the basic needs of animals, including humans, for survival (water, food, air)
- Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene

Science Knowledge Organiser - Year 3 Biology: Animals including humans

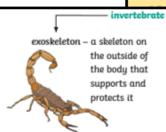


What I will learn in this unit.

- > I will be able to identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat
- I will be able to identify that humans and some other animals have skeletons and muscles for support, protection and movement.







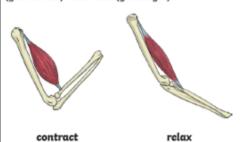


hydrostatic skeleton - a skeleton made up of a fluid-filled compartment in the body called a coelom, mainly

found in soft-

bodied animals

Skeletal muscles work in pairs to move the bones they are attached to by taking turns to contract (get shorter) and relax (get longer).



Scientist study: Wilhelm Rontgen (1845 - Germany)

He was the first one to produce and detect electromagnetic radiation in a wavelength. These rays are now known as x-rays or Rontgen rays.



Word	Definition
Nutrients	Substances that help to keep living things alive
Skeleton	Skeletons protect the organs, allow movement and support the body
Hinge	A joint that bends in one way, elbow and knee and two examples
Socket and ball	A hip of shoulder joint that can twist and turn
Muscles	Soft tissue in the body that contracts and relaxes to cause movement of the skeleton
Vertebrates	An animal with a backbone
Invertebrate	An animal without a backbone
Exoskeleton	A skeleton on the outside of the body
Endoskeleton	A skeleton on the inside of the body
Hydrostatic skeleton	A skeleton made up of fluid
Carbohydrates	Food that provided energy
Fats	Food that provided energy but too much can be unhealthy
Proteins	Food that helps muscle grow and repair
Vitamins and minerals	In fruits and vegetables that keep you healthy
Fibre	Food that helps you digest and go to the toilet
bairy	A food that comes originally from milk

