

Animals including humans

How can animals, including humans, support, protect and move their bodies?

Biology

Lesson sequence

To explore the 5 key food groups

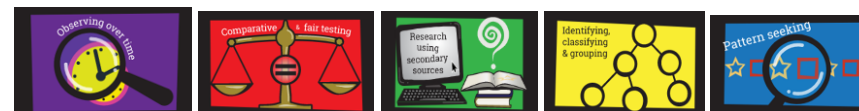
To learn about the nutrition in the food we eat

To learn about the different types of skeletons

To learn about the human skeleton

To learn about animals and their skeletons

To explore the role of muscles



Enquiry Types

- Identify, classify and group
- Observe, gather, record and present data
- Comparative and fair testing

Sticky learning

New Knowledge

- I know that humans and some other animals have skeletons and muscles for support, protection and movement.
- I know the names of some parts of the skeletal and muscular system.
- To know, identify and group animals with and without skeletons
- I know that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food
- To know the diets of different animals

Skills

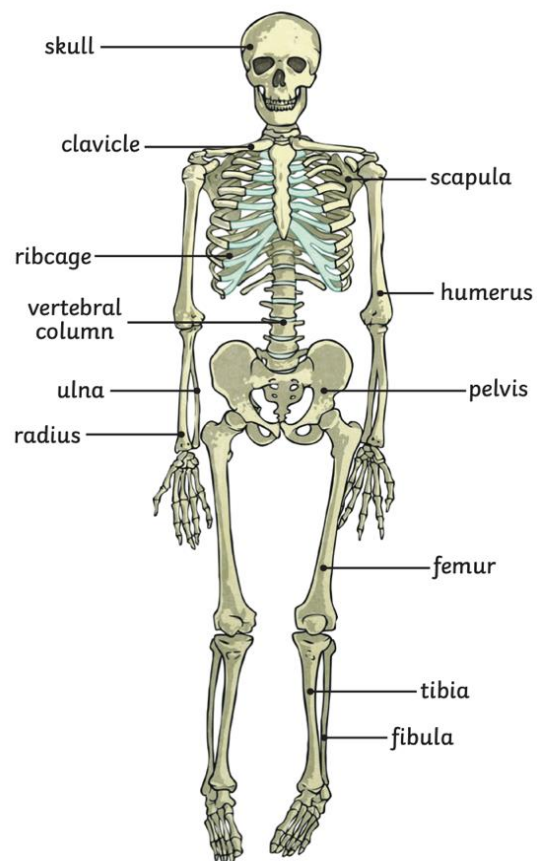
- I can gather, record, classify and present data in a variety of ways
- I can report findings from enquiries
- I can make careful observations, taking accurate measurements
- I can sort, group and classify
- I can use straight forward scientific evidence to answer questions.
- I can ask relevant questions
- I can use results to draw simple conclusions

Concept Links / Prior Knowledge

Year 1 • identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals • identify and name a variety of common animals that are carnivores, herbivores and omnivores

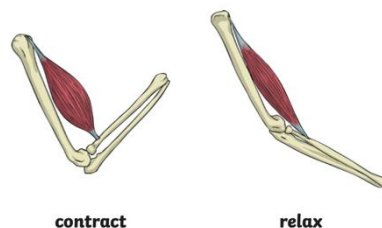
Year 2 • notice that animals, including humans, have offspring which grow into adults • find out about and describe the basic needs of animals, including humans, for survival (water, food and air) • describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene

Visual representations



More detailed knowledge and information

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



Nutrient	Found in... (examples)	What it does/they do
carbohydrates		provide energy
protein		helps growth and repair
fibre		helps you to digest the food that you have eaten
fats		provide energy
vitamins		keep you healthy
minerals		keep you healthy
water		moves nutrients around your body and helps to get rid of waste

Vocabulary revision (vocabulary I have been taught before)

Animals
Mammals
Pets
Human body
Basic needs
Survival
Water
Food
Exercise
Amount, type, food

New vocabulary I will learn

skeleton, bones, femur,
skull, pelvis, jaw,
vertebra, vertebrate,
invertebrate, backbone, spine,
muscles, contract, relax, bones,
pairs, push, pull,
abdominals, calf, bicep, triceps, quadriceps,
food, protein, carbohydrate, healthy,
fat, fruit, vegetables, nutrients, energy, fibre,
food groups, food pyramid, amount, type.