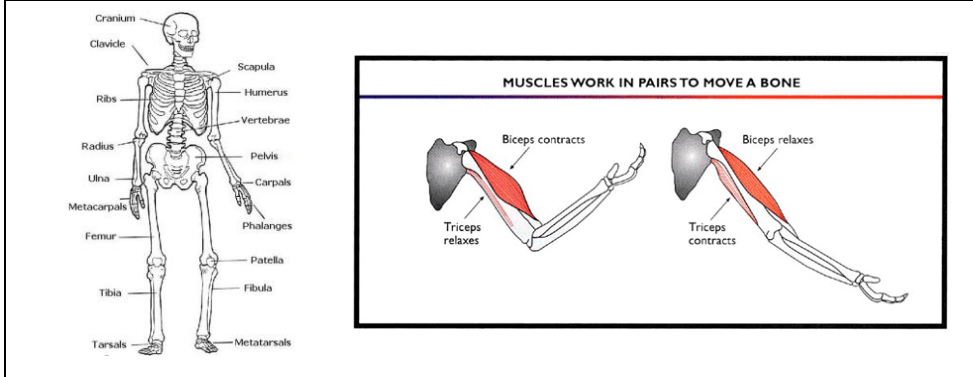


Year 4/5 Science: Animals including humans



Why are we learning about 'Animals including humans'?



We are **building on all our previous learning** in KS1 about living things and their habitat; the human body; offspring of animals; groups of animals; the needs of animals and how humans can keep healthy. It also builds on our learning from autumn term on the digestive system, teeth, and food webs.

This **new learning is important because** we need to understand about nutrition and how our body is built so that we can live a healthy lifestyle. Learning about the lifecycles of both humans and animals will help us to understand the processes that all living things go through.

This **will help us get ready for future learning about** the human circulatory system and the impact of diet, exercise, drugs and lifestyle on the way our bodies function. It will also be relevant in a wide range of jobs in the areas of health, fitness and medicine.

Important questions to answer:



- Why is it important to have a balance of all 7 nutrients in our diet?
- What are the main bones in the human body and why are they important?
- How do muscles help our body to move?
- How are the lifecycles of amphibians and insects similar?
- What are the 5 stages in the lifecycles of mammals, amphibians, insects, and birds?

Experiences we will have:



- Make and label a model of a human skeleton.
- Illustrate the life cycle of a range of animals.

Things we need to know:



- To know that the 7 nutrients (protein, carbohydrate, fats, fibre, vitamins, minerals, and water) are used to help keep the body in good working order and each serve a different purpose.
- To know the names of the main bones in the human body, the organs they protect and how they make up the skeleton.
- To know that muscles can only pull (not push) and we therefore need two muscles to work together at a joint to move the body.
- To know that the process of complete metamorphosis is when the fully grown adult looks completely different to the young.
- To know that the 5 stages of an animal's life cycle include birth, growth, reproduction, aging, and death.

Skills we need to learn:



- I can **explain** the function of the different nutrients in an animal's diet.
- I can **create** a model to show the bones of the human body and their function.
- I can **draw** a diagram to show how muscles make skeletons move.
- I can **describe** the process of complete and incomplete metamorphosis.
- I can **compare** the lifecycles of mammals, amphibians, insects, and birds.

Subject Specific Vocabulary:



carbohydrate	metamorphosis	protection
complete	mineral	protein
complete	movement	reproduction
fibre	muscles	skeleton
growth	nutrition	vitamin
incomplete	organs	

