

In this unit: Pupils will investigate the different muscles, which are used to ride a bike and understand that muscles work in pairs. They will investigate x-rays of people who have fallen off bikes and identify the bones, which are broken.

Children should know:

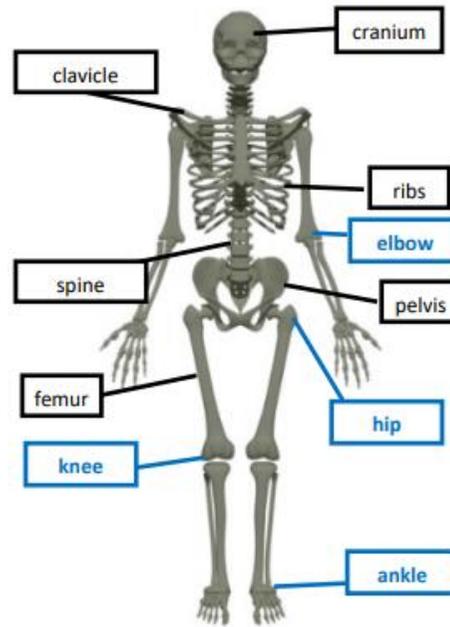
- the names of parts of the human body and what they do.
- that there are different ways in which animals can be healthy.
- that all animal need water, air and food to survive.

By the end of this unit, children will know:

- the different types of skeletons – endoskeletons and exoskeletons.
- what an endoskeleton does.
- that muscles contract and relax to make the skeleton move.
- that muscles are connected to bones by tendons.
- the common names of parts of the human skeleton.
- the names of some common muscles in the human body.
- the function of different muscles in the human body.

Pupils could investigate:

- identifying and grouping animals with and without skeletons and compare the ways in which they move.
- ideas about what would happen if we didn't have a skeleton.
- what the functions of different bones in the skeleton are.
- the size of the arm when it is bent and straight.
- which bones have been damaged from an x-ray.



Key Vocabulary

contract	to make smaller by getting tighter
endoskeleton	the internal skeleton of an animal particularly a vertebrate
exoskeleton	the protective structure covering the outside of the body of many animals
joint	the place where two or more bones join
ligaments	a strong cord in a human or animal body that joins two bones across a joint
muscle	something inside your body which is used to make a movement
organs	a part of the body that is used for a particular purpose and is important in keeping the human or animal alive
protect	to prevent from being damaged or harmed
relax	becomes less stiff and firm and is stretched by its partner muscle
skeleton	the bones that make up the human body
support	holds something up
tendon	a strong cord in a human or animal body that joins muscle to bone

Key Questions:

- what is the function of the skeleton?
- what is the main job of the cranium?
- which muscle makes the arm bend?
- how are x-rays used to identify injuries?

