

# Frogwell Primary School Year 3 Knowledge Organiser Term 2

## Animals, including humans

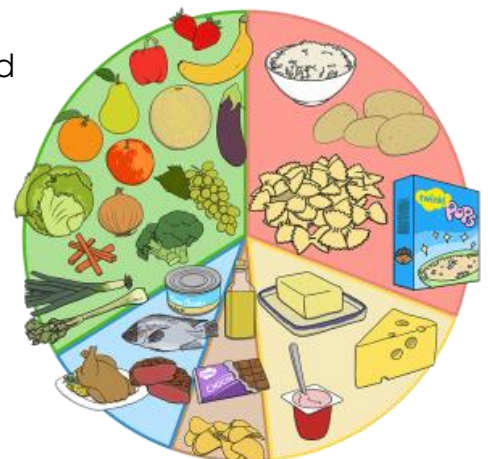
### Working scientifically:

- Ask questions about animals and carry out practical enquires and fair tests to answer them.
- Make careful observations of animals including humans.
- Gather, record and present data in different ways to show our answers.
- Use scientific language and evidence to explain what we are finding out about.
- Use our results to draw simple conclusions about how animals.

### KEY VOCABULARY TO LEARN

<b>Nutrients</b>	Substances that living things need to stay alive and healthy.
<b>Carbohydrates</b>	A nutrient that provides energy, this can be found in bread and pasta.
<b>Proteins</b>	A nutrient that helps growth and repair, this can be found in eggs and meat.
<b>Vitamins</b>	A nutrient that keep you healthy, this can be found in carrots and plain nuts.
<b>Minerals</b>	A nutrient that keeps you healthy, this can be found in milk and corn.
<b>Fibre</b>	A nutrient that helps you to digest the food that you have eaten, this can be found in wholegrain cereal and wholemeal bread.
<b>Fats</b>	A nutrient that provides energy, this can be found in oil and butter. There are <b>saturated fats</b> this can be found in which are considered to be less healthy that should only be eaten in small amounts, and there are <b>unsaturated fats</b> that give you energy, vitamins and minerals.
<b>Water</b>	Water moves nutrients around your body and helps to get rid of waste, this can be found in lettuce and tomatoes.
<b>Skeleton</b>	An internal or external framework of bone, cartilage or other rigid materials that support or contain the body of an animal. There are three different types of skeletons.
<b>Muscles</b>	Soft tissues in the body that contract and relax to cause movement.
<b>Joints</b>	Areas where two or more bones are fitted together.

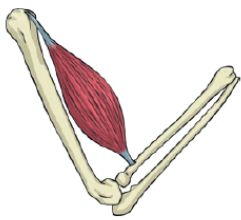
- Living things need food to grow and to be strong and healthy.
- Plants can make their own food, but animals cannot.
- To stay healthy, humans need to exercise, eat a healthy diet and be hygienic.
- Animals, including humans, need food, water and air to stay alive.



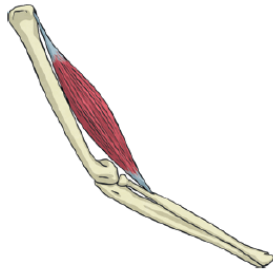
## Muscles:

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

Muscles are joined to bones using **tendons**.



**contract**



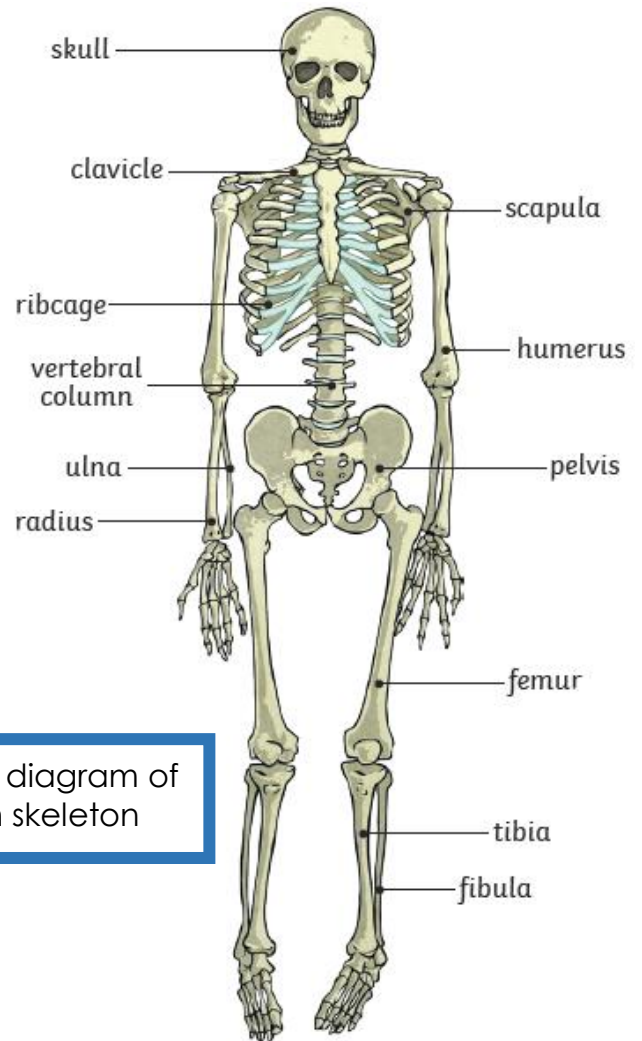
**relax**

## Skeletons

There are **three** different types of skeletons.

### vertebrate

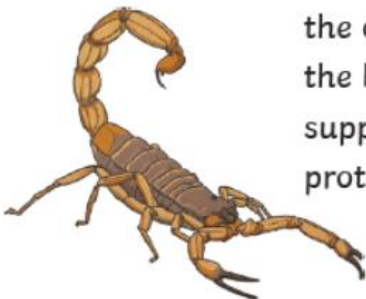
**endoskeleton** – a skeleton on the inside of the body that supports and protects it



Labelled diagram of a human skeleton

### invertebrate

**exoskeleton** – a skeleton on the outside of the body that supports and protects it



**hydrostatic skeleton** – a skeleton made up of a fluid-filled compartment in the body called a coelom, mainly found in soft-bodied animals

