



— ANIMALS including Humans KNOWLEDGE ORGANISER —



What you should already know...



- Animals can be split into different groups (e.g. birds/fish & carnivores/omnivores)
- All animals have basic needs that have to be met in order for them to survive: water, food, shelter, oxygen, temperature
- Animals have different stages in their lives – birth, growth, reproduction and death.
- Humans (and most other animals) need to stay healthy, by exercising, eating a balanced diet, and being hygienic.

Nourishment



-Unlike plants, animals cannot create their own food. They get nutrition from what they eat.

-This is because animals do not have chlorophyll, or chloroplasts in their cells, like plants do.

-Therefore, plants are called producers and animals are called consumers.

-The different nutrients that animals get depends on their diet. For example, a cheetah gets lots of protein in its diet because it is a carnivore (eats meat).

Types of Nutrition



Carbohydrates

-Carbohydrates give the consumer energy.

-Foods that have lots of carbohydrates in are often called 'starchy' foods.

-Carbohydrate-rich foods include pasta, rice, oats, breads, breakfast cereals and barley.



Protein

-Protein helps the body (especially the muscles) to repair itself.

-Protein-rich foods include meat, eggs & nuts.



Fibre

-Fibre helps our digestive systems to work well.

-Fibre is often found in high-carbohydrate foods like bread, cereal, potatoes, and some fruits.

Fat

-Fats also give consumers lots of energy. However, too much fat is not healthy!



Vitamins and Minerals

-There are many different vitamins and minerals that perform hundreds of roles in the body.



Fruit and vegetables are vitamin/mineral-rich.

Skeletons and Muscles

Skeleton



-Humans (and many other animals) have a system of bones called a skeleton.

-Skeletons help to support your body – they give it its shape.

-Skeletons are also important for movement. Muscles are attached to bones.

-Finally, skeletons help to protect important parts of the body. E.g. the ribs protect the heart and lungs.

Muscular System

-Humans (and many other animals) also have a system of muscles in their bodies.

-The main purpose of muscles is for movement. As they contract, muscles move parts of the body around.

-Muscles are also important for maintaining posture, helping humans/ animals to sit, stand, and walk.

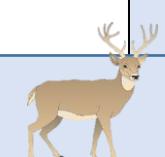
-Some muscles (e.g. the heart) move by themselves – they are involuntary.

Amounts of Nutrition

Mouse
0.004kg per day



Deer
4kg per day



Tiger
15kg per day



Blue Whale
3,500kg per day

