



Living Things and Their Habitats - Science

Key Vocabulary

Word	Definition
life processes	These are the things that all living things do. They move, breathe, have senses, grow, make babies, get rid of waste and get their energy from food.
reproduce	This is when living things create a new living thing such as a baby.
living	Things that are living have all the life processes.
dead	Things that are dead were once living. They did have all the life processes but don't now.
never living	Things made out of metal, plastic or rock were never living. They never had the life processes.
food chain	A food chain shows how each animal gets its food. Food chains are one of the ways that living things depend on each other to stay alive.
food sources	This is the place a living thing's food comes from.
survive	This means to stay alive.

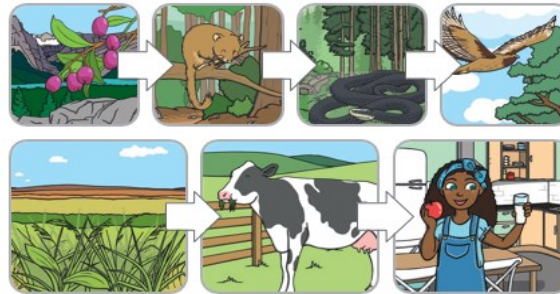
States of Living

Living things need food, water and air to stay alive. They can move, grow and reproduce to make babies or young.

Some non-living things were once part of a living plant or animal.



Food Chains



The arrows mean 'is eaten by'.

Key Scientist

Rachel Carson warned that pesticides and other chemicals could spread throughout the food chain. Pesticides are used to kill pests such as insects, weeds, and small animals that can destroy crops. She found that certain pesticides could affect the environment and make people sick.



States of Living

Things made of materials such as metal, rock, plastic, glass and sand have never been part of a living thing.



Habitats

A habitat is a natural place where something lives.



Microhabitats

A microhabitat is a very small habitat, usually for minibeasts and insects.

under leaves



in and on soil





Living Things - History and Geography

Key Vocabulary

decade	ten years
conservation	the protection of living things found in nature
breeding	when living things create babies or offspring of the same kind
enclosures	an area surrounded by a fence or walls
disease	an unhealthy state where something bad happens to the body or mind
Foot and Mouth disease	an infection that affects hoofed animals such as cattle, pigs, sheep, and goats.
Covid-19	a disease effecting humans



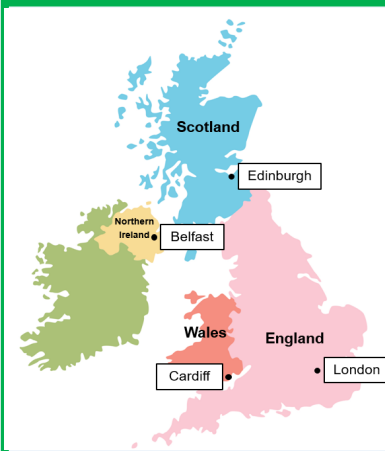
Colchester Zoo was bought by new owners in 1983. At the time, there were only 8 zoo keepers but now there are more than 200.



From 1990 to 2000, the zoo's site became much larger. Bigger enclosures were built for the animals they already had and new enclosures were prepared to house new species of animals. Improving the zoo for animals and visitors has continued over the decades.

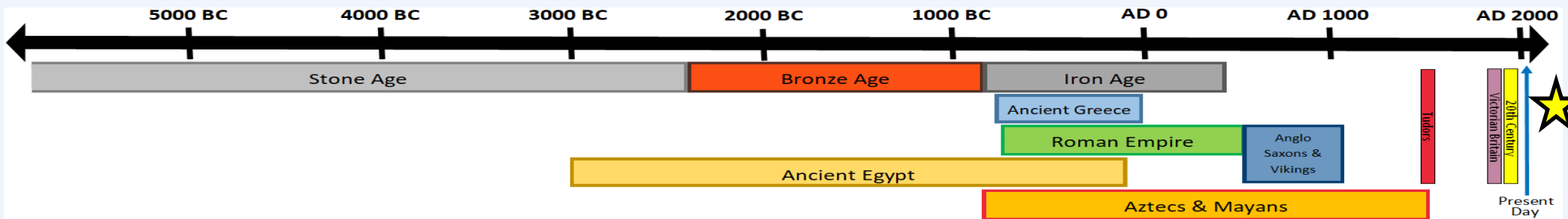
Conservation and Breeding Programmes

Many of the animals in Colchester zoo are threatened, endangered or critically endangered. The zoo works to



Two main islands form the United Kingdom. England, Scotland and Wales form one island. Northern Island is part of the other. An island is a piece of land that is completely surrounded by water.

An isle is a smaller island, like The Isle of Man or the Isle of Wight. The Hebrides is a cluster of islands and very small isles.





Animals Including Humans - Science

Key Knowledge: Life Cycles All young animals and humans change as they go through the different stages of their life cycle and grow into adults.

At different stages of the life cycle, humans complete different activities:

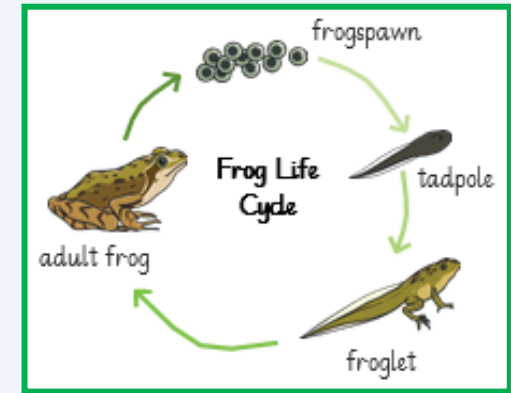
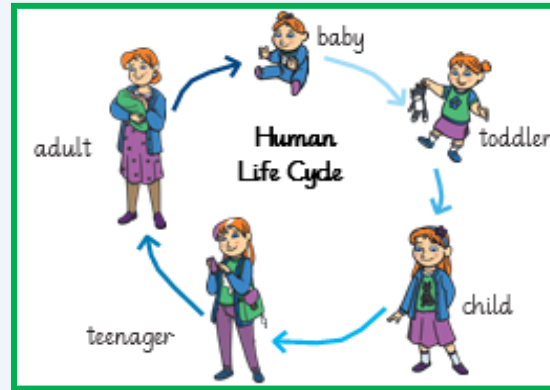
Baby - cry and drink milk

Toddler - learn to walk and communicate

Child - go to school and play with friends

Teenager - learn to drive a car

Adult - have their own home and vote in elections



Key Vocabulary

Word	Definition
adult	a fully grown animal or plant
develop	to become bigger and stronger
life cycle	the changes living things go through to become an adult
offspring	the child of an animal
young	offspring that has not reached adulthood
live young	offspring that has not hatched from an egg

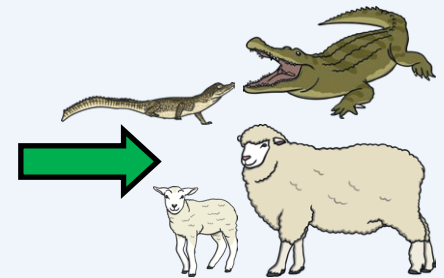
Key Knowledge: Adults and their offspring

Some animals give birth to live young

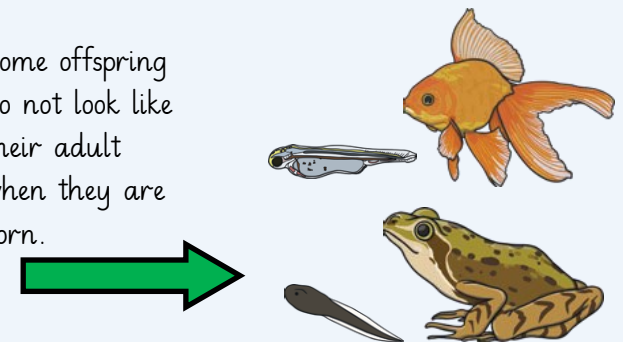
Some animals lay eggs which the young hatch from.

Both of these types of young then develop into adults.

Some offspring look like their adult when they are born.



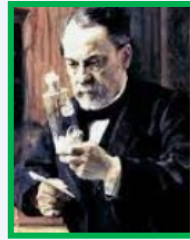
Some offspring do not look like their adult when they are born.





Animals Including Humans - Science

Key Scientists: Louis Pasteur discovered that germs are living things that can be spread by touch or through the air. Germs are tiny living things that can cause diseases. Elizabeth Garret Anderson was the first woman to qualify as a doctor. She qualified in 1865. Doctors treat people who are ill. They use science to work out what is wrong with someone and how to treat it.



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Key Knowledge: Survival To stay alive, all animals have three basic needs for survival:



Key Knowledge: Hygiene

To stop germs from spreading, it is important to have good hygiene.



Key Knowledge: Exercise You can keep your body and mind healthy by being active and exercising.

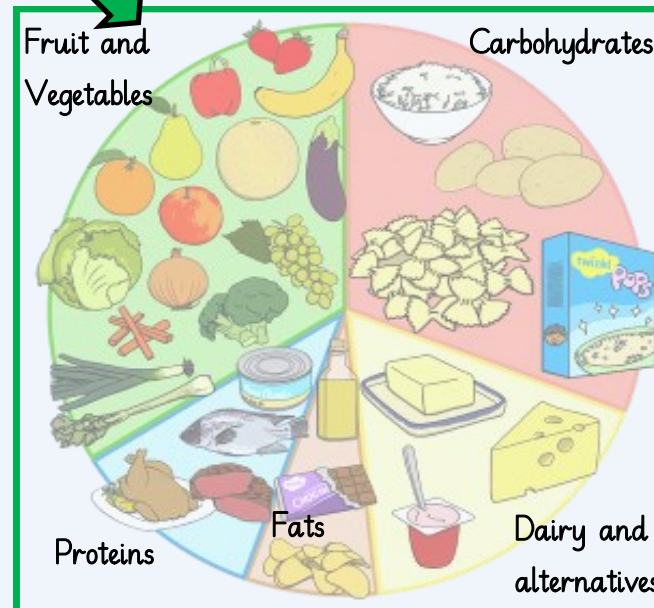


Key Vocabulary

Word	Definition
diet	the food and water that an animal needs
disease	an illness or sickness
exercise	a physical activity to keep your body fit
germs	tiny living things that can cause disease
hygiene	how we keep ourselves and the world around us clean so we can stay healthy and stop germs spreading
nutrition	food needed to live
pulse	the beating of the heart that can be felt in your neck and wrist

Key Knowledge: The Eatwell plate

To grow into a healthy adult, you must eat the right types of food in the right amount and exercise.



You must eat foods like these less often and in small amounts.

