



HEARTS Academy Trust Knowledge Organiser



Science + Humans including animals

Year 1/2 Autumn Term B

Theme: Cause and Effect

What should I already know?

Year 1:
Name animals and their young (farm animals)
Observe and describe the life cycle of an animal – insect/ chick
Identify and describe how people grown and change (baby, child, teenager, adult, elderly person)

Year 2:
Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene
Notice that animals, including humans, have offspring which grow into adults
Find out about and describe the basic needs of animals, including humans, for survival (water,

What I will know by the end of the topic

Can you identify and name 2 animals in each of these classes (Year 1 one animal in each class)

Amphibians (frog, newt), birds (eagle, magpie), fish (goldfish, salmon), reptiles (crocodile, snake), mammals (lion, giraffe)

Use a food chain to say how an animal obtains its food from plants and other animals.

Name animals that are herbivores and carnivores Herbivores— deer, antelope, rabbits, hippos, zebras, tortoises

Carnivores— lion, tiger, shark, wolves, jaguar

name some parts of the external human body feet, hands, ankle, knee, spine, wrist

name some internal parts of the human body brain heart stomach lungs

Which part of the body do we use to see? Eyes

Which part of the body do we use to smell? nose

Which part of the body do we use to taste? Mouth (and nose)

Which part of the body do we use to touch? Mainly hands

Which part of the body do we use to hear? Ears

What are the 5 senses? Sight, taste, touch, smell, hearing

Application of Knowledge

Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals
Identify and name a variety of common animals that are carnivores, herbivores and omnivores
Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)
Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense

Vocabulary

Touch	The sensation that the skin sends messages to the brain about what we feel—cold, hot, smooth, rough, pain, tickle, itch etc
Taste	The sensation of flavour on the tongue.
Smell	The power of perceiving odours and scents by the nose.
Hearing	The way the body perceives sounds through the ears.
Sight	The power to see and send information to the eyes.
Mammals	any member of the group of vertebrate animals in which the young are nourished with milk from special mammary glands of the mother.
Bird	Birds are animals that have feathers and that are born out of hard-shelled eggs.
Fish	Fish are vertebrates that live in water and have gills, scales and fins on their body.
Amphibians	Amphibians are born in the water. When they are born, they breath with gills like a fish. But when they grow up, they develop lungs and can live on land.
Reptiles	Reptiles are a class of animal with scaly skin. They are cold blooded and are born on land.
Food chain	A food chain shows how plants and animals get their energy.
Carnivores	is a meat eating animal whose food and energy requirements from animal tissues through hunting or scavenging.
Herbivores	is an animal who is adapted to eating plant material, for example foliage or marine algae, for the main component of its diet.
Omnivores	is an animal that has the ability to eat and survive on both plant and animal matter

