

The Mead Infant and Nursery School – Science



Year 1 Animals including humans

backbone

carnivores

cold-blooded

environment

farm

gills

herbivore

omnivore

vertebrate

warm-blooded

invertebrate

temperature

pet

wild

invertebrate

What is an animal?		
Animals are living things. Like plants, animals need food and		
water to live. Unlike plants, which make their own		
food, animals feed themselves by eating plants or		
other animals.		
Vertebrates: are animals that have a backbone.		

Key Knowledge

There are 5 groups of vertebrate:

Mammals:

- -Give birth to their young -usually have fur or hair
- -are warm blooded
- -cannot breathe underwater Some common mammals are:
- -pets such as dogs, cats, hamsters
- -farm animals such as cows, sheep, horses
- -wild animals such as foxes, hedgehogs and lions
- -human





Amphibians

- -are cold-blooded
- -lay eggs
- -live on land and water can breathe underwater through gills
- -some common amphibians are frogs and toads



Fish: -have fins and scales

- -breathe underwater using gills
- -lay eggs in water -are cold-blooded Some common fish are
- salmon, cod and tuna



Birds

- -are warm-blooded
- -have wings and beaks
- -have feathers
- -lay eggs

Some common birds are ducks, chickens, penguins

and pigeons



Reptiles

- -are cold-blooded
- -lay eggs
- -have scales
- -cannot breathe underwater -some common reptiles are

snakes and lizard



Scientific Enquiry

after by people

octopus

Key Vocabulary

the middle of your back

temperature

their life

breathe

octopus

an animal that eats meat

the column of small linked bones down

a body temperature that changes according to the surrounding

to breed animals and livestock

an animal that only eats plants

example an insect, a worm, or an

including both meat and plants

a creature which has a spine

a tame animal kept in a household

a fairly high body **temperature** which does not change much and is not

animals or plants that live or grow in

example an insect, a worm, or an

affected by the surrounding temperature

natural surroundings and are not looked

a creature that does not have a spine, for

a measure of how hot or cold something

all the circumstances, people, things, and events around them that influence

an area of land used to produce crops or

the organs on the sides of fish and other

a creature that does not have a spine, for

person or animal eats all kinds of food,

water creatures through which they

Wildlife watch: Use observations in local environment to compare animals or videos to investigate what different animal groups eat/identify features of animal group eg wings/fur etc

Can you find out about your class animal-first hand?!

Find out which birds frequent trees in our setting.

Make own sensory toy e.g. different senses calm different people. What would you put in a sensory bottle or would you prefer something to touch etc.

Invertebrates are animals that do not have a backbone: Insects (e.g. ladybirds), molluscs e.g. snails & arachnids e.g. spiders

What do animals eat?

- Animals that only eat meat (other animals) are called carnivores (examples include lions and eagles.
- Animals that only eat plants are called herbivores (examples include cows and giraffes)
- Animals that eat plants and meat are called omnivores (examples include humans and squirrels)



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Year 2 Animals including humans			
Key Knowledge What is a cycle?	Key Vocabulary		
 life cycle is the series of changes that an animal or plant passes through from the beginning of its life until its death. Animals, including humans, have offspring which grow into adults. 	Bones	The hard parts inside your body which together form your skeleton	
	disease	an illness which affects people, animals, or plants	
	exercise	When you exercise , you move your body energetically in order to get fit and to remain healthy	
What do all animals need to survive?	farm	an area of land used to produce crops or to breed animals and livestock	
 All animals need water, air and food to survive. 	healthy	well and not suffering from any illness	
What do humans need to be healthy?	hygiene	keeping yourself and your surroundings clean, especially in order to prevent illness or the spread of diseases	
 to eat a balanced diet and healthy food some exercise to keep their muscles and bones healthy to take medicines that are given by doctors and nurses when feeling poorly to keep good hygiene by washing regularly, having clean clothes, brushing teeth and hair. 	life cycle	the series of changes that an animal or plant passes through from the beginning of its life until its death	
	medicine	the treatment of illness and injuries by doctors and nurses	
	muscles	something inside your body which connects two bones and which you use when you make a movement	
	offspring	a person's children or an animal's young	
	balanced diet	choosing foods in the right amounts from each of the food groups.	
	skeleton	the framework of bones in your body	
	survive	continue to exist	

Scientific Enquiry

Are all babies just smaller versions of an adult?
what happens to hand/foot size at different ages (points in a life cycle)?
How do needs of an animal/human change during each stage of their life cycle?
Which activity gets your heart working the most?