Newport Infant School—Science Knowledge Organiser

Spring and Summer Terms | **Year 1** | **The Animal Kingdom**

What should I already know?

- The names of some common animals.
- Know some similarities and differences between different groups of animals.

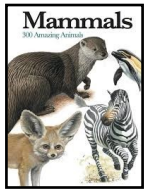
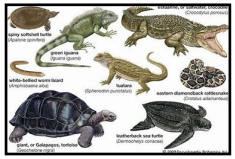
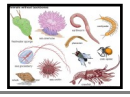
What I will know by the end of the unit

- To be able to identify and name a variety of common animals.
- To able to describe and compare the structures of a variety of common animals (including pets) using our local environment to explore and answer questions about animals in their habitats.
- To know that animals, including humans have offspring which grow into adults
- To be introduced to the processes of reproduction and growth in animals. Some lay eggs, some give birth to their babies

Investigate!

- Observations in local environment to compare animals and through videos and photographs.
- Identify, describe and group animals.
- David Attenborough, animal species and classification.
- Life-cycle of a butterfly, grow from caterpillars
- Exotic zoo visit.
- Research how to take care of animals taken from local environment and how to return them safely.

Animal Classification

What are vertebrates?	Vertebrates are animals that have a backbone. There are five groups of vertebrates: Mammals, Fish, Birds, Reptiles, Amphibians
What are mammals?	Give birth to live young Usually have hair or fur Warm-blooded Cannot breath underwater 
What are fish?	**Cold-bloodied** Have fins and scales Breathe underwater using gills Lay eggs in water 
What are birds?	**Warm-bloodied** Have wings and beaks Have feathers Lay eggs 
What are reptiles?	**Cold-bloodied** Have scales Lay eggs Cannot breather underwater 
What are amphibians?	**Cold-bloodied** Lay eggs Live on land and water breath underwater using gills 
What are invertebrates?	No backbone They may have an exoskeleton 

Vocabulary

backbone	The column of small linked bones down the middle of your back.
cold-blooded	A body temperature that changes according to the surrounding temperature
environment	All the circumstances, people, things, and events around them that influence their life
farm	An area of land used to produce crops or to breed animals and livestock
gills	The organs on the sides of fish and other water creatures through which they breath
invertebrate	A creature that does not have a spine, for example an insect, a worm, or an octopus
pet	A tame animal kept in a household
temperature	A measure of how hot or cold something is
vertebrate	A creature which has a backbone
warm-blooded	A fairly high body temperature which does not change much and is not affected by the surrounding temperature
wild	Animals or plants that live or grow in natural surroundings and are looked after by people

Science Skills

- Sorting and classifying
- Observation
- Research

