# Parklands Primary School - Science



**Topic: Animals including humans (animals) Year: 1 Strand: Biology**

## What should I already know?

* The names of some common animals.
* The parts of the human body and how they are associated with each sense.

## What will I know by the end of the unit?

**Diagram**

What are

## vertebrates?

What are mammals**?**

What are fish**?**

What are birds**?**

What are reptiles**?**

What are amphibians**?**

**Vertebrates** are animals that have a

## backbone.

There are five groups of **vertebrates**:

* mammals
* fish
* birds
* reptiles
* amphibians
* give birth to live young
* usually have hair or fur

## warm-blooded

* cannot breathe underwater
* some common mammals are:
  + **pets** such as dogs, cats, hamsters
  + **farm** animals such as cows, sheep and horses
  + **wild** animals such as foxes, hedgehogs, lions and giraffes
  + humans
* have fins and scales
* breathe underwater using **gills**
* lay eggs in water

## cold-blooded

* some common fish are salmon, cod and tuna

## warm-blooded

* have wings and beaks
* have feathers
* lay eggs
* some common birds are ducks, chickens, penguins and pigeons

## cold-blooded

* lay eggs
* have scales
* cannot breathe underwater
* some common reptiles are snakes and lizards

## cold-blooded

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

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| **Vocabulary** | |
| backbone | the column of small [linked](https://www.collinsdictionary.com/dictionary/english/link) [bones](https://www.collinsdictionary.com/dictionary/english/bone) down the [middle o](https://www.collinsdictionary.com/dictionary/english/middle)f your back |
| carnivores | an animal that eats meat |
| cold-blooded | a body temperature that changes  [according](https://www.collinsdictionary.com/dictionary/english/accord) to the surrounding temperature |
| environment | all the [circumstances,](https://www.collinsdictionary.com/dictionary/english/circumstance) 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](https://www.collinsdictionary.com/dictionary/english/creature) through which they [breathe](https://www.collinsdictionary.com/dictionary/english/breathe) |
| herbivore | an animal that only [eats](https://www.collinsdictionary.com/dictionary/english/eat) plants |
| omnivore | person or animal eats all [kinds](https://www.collinsdictionary.com/dictionary/english/kind) of food including both [meat](https://www.collinsdictionary.com/dictionary/english/meat) and plants |
| pet | a [tame](https://www.collinsdictionary.com/dictionary/english/tame) animal kept in a [household](https://www.collinsdictionary.com/dictionary/english/household) |
| temperature | a measure of how hot or cold something is |
| vertebrate | a [creature](https://www.collinsdictionary.com/dictionary/english/creature) which has a **backbone** |
| warm-blooded | a [fairly h](https://www.collinsdictionary.com/dictionary/english/fairly)[igh](https://www.collinsdictionary.com/dictionary/english/high_1) body **temperature** which does not [change](https://www.collinsdictionary.com/dictionary/english/change) much and is not [affected](https://www.collinsdictionary.com/dictionary/english/affect) by the [surrounding](https://www.collinsdictionary.com/dictionary/english/surround) **temperature** |
| wild | animals or plants that live or grow in natural surroundings and are not looked after by people |

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| **Investigate!** |
| * describe how to identify and group animals * group animals by key features eg. Wings, tails * group animals according to what they eat * Label the body parts of an animal * Compare two animals from the same group |

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| Question 1: An animal that gives birth to live young and has hair or fur is called a… | Start of unit: | End of unit: |
| mammal |  |  |
| fish |  |  |
| insect |  |  |
| reptile |  |  |

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| --- | --- | --- |
| Question 2: Which of these is **not** a suitable pet? | Start of  unit: | End of  unit: |
| dog |  |  |
| rabbit |  |  |
| rhinoceros |  |  |
| hamster |  |  |

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| --- | --- | --- |
| Question 3: What do fish, reptiles and birds  have in common? | Start of unit: | End of unit: |
| they all have wings |  |  |
| they can all breathe underwater |  |  |
| they all lay eggs |  |  |
| they all have feathers |  |  |

Question 4: Can you group the animals? Draw a line.

|  |  |  |  |
| --- | --- | --- | --- |
| Feathers | Fur | Start of unit: | End of unit: |
|  |  |  |  |

