

All About Animals Science 20th January 2020



All About Animals

By the end of our lesson, you will be able to:

- Name some common animals.
- Name the groups of animals including fish, mammals, birds, reptiles and amphibians.
- Identify what groups animals belong to.



All About Animals

Did you know that all living things on earth can be split into 2 groups:

Plants

Animals



Plants are fairly easy to spot – and we will learn more about them next term.

But what about animals?

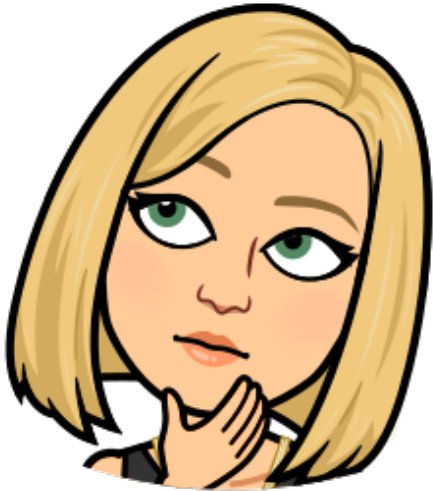


All About Animals

Pretend I have never seen an animal.
How would you describe what an animal is? Talk to your
grown up about your ideas.



All About Animals



Look carefully. There are animals in all these pictures. How do you know they are animals?

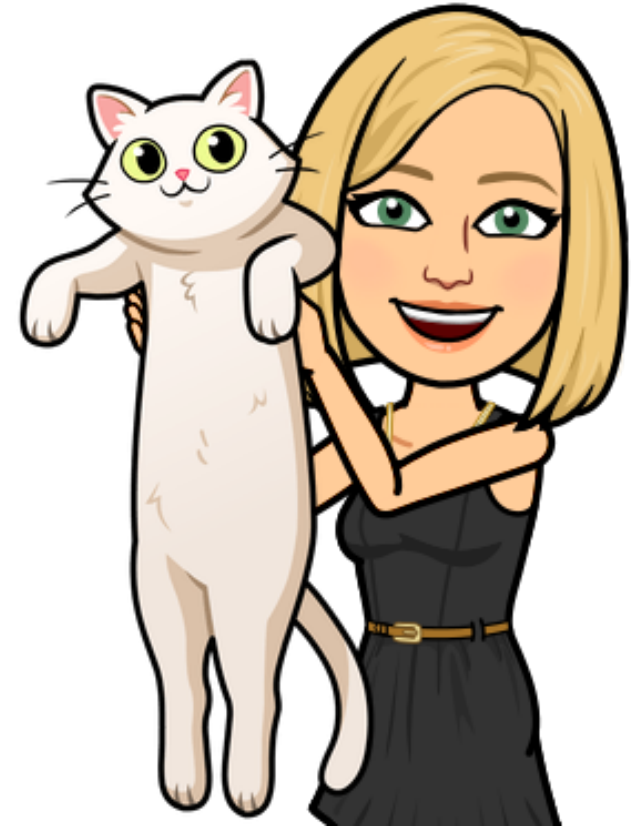


Different Types of Animals

Books are sorted on library shelves so people can find the right one when they need it.

Animals that are similar to each another can also be sorted into groups.

Sorting animals into groups can help us learn about them. This is called **classification**.



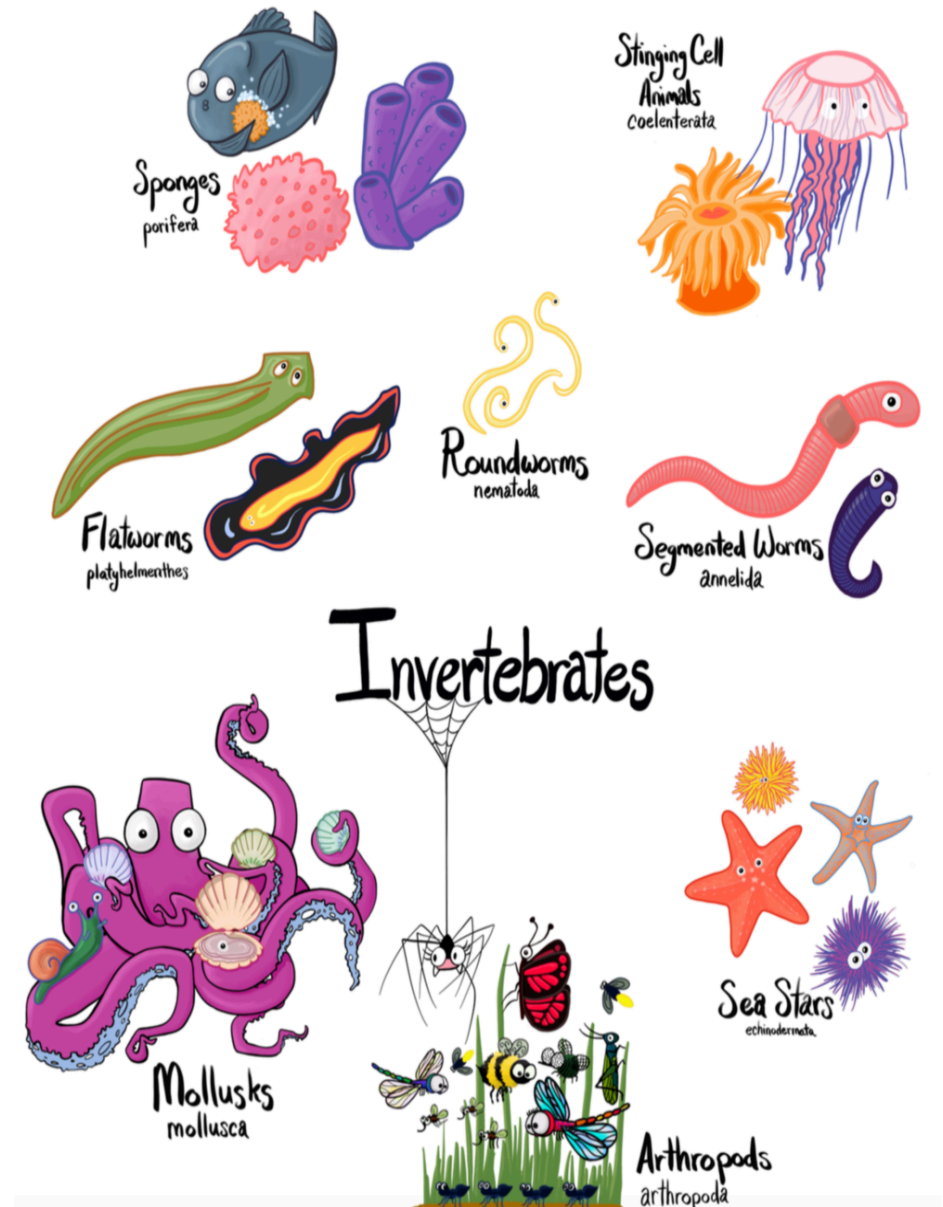
Different Types of Animals

First of all scientists need to decide if animals are **vertebrates** or **invertebrates**.

A **vertebrate** is an animal with a **backbone**.

An **invertebrate** is an animal **without** a **backbone**.

Run your hand down the middle of your back. Can you feel the knobbly bits? This is your spine or backbone. It is made up of vertebrae – these are the knobbly bits!



Different Types of Animals

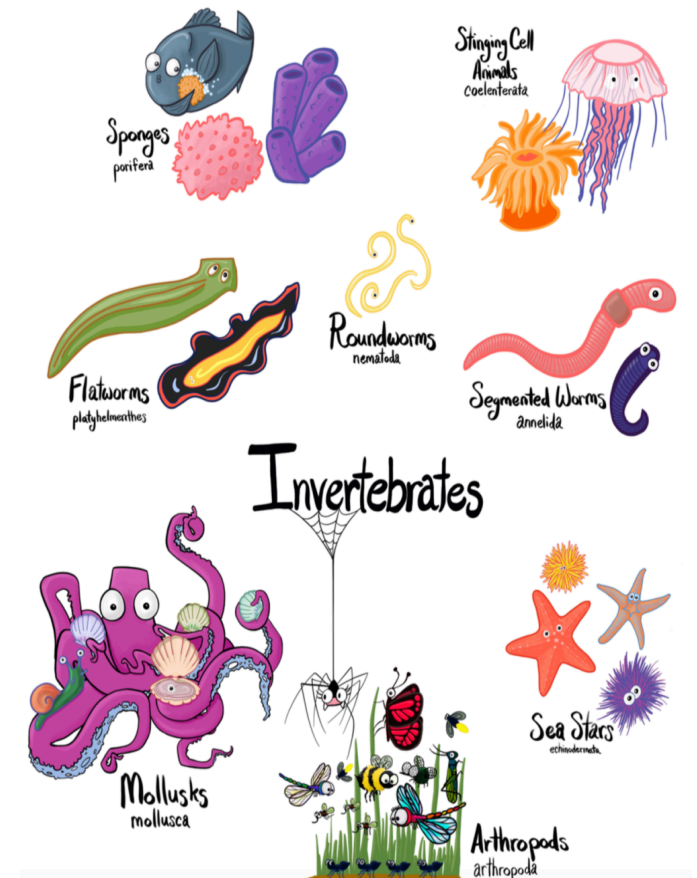


Invertebrates:

- 97% of all creatures are invertebrates
- they do not have a backbone
- insects, worms, sponges and more

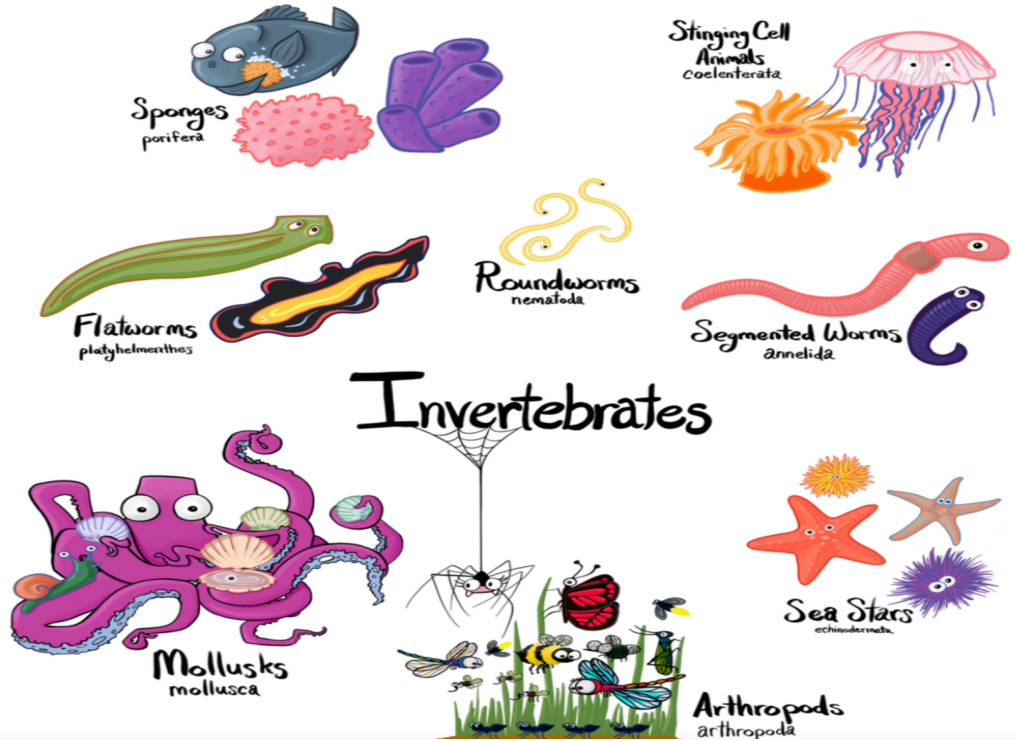


2014 © Grade One Snapshots



Different Types of Animals

Can you sort these animals?

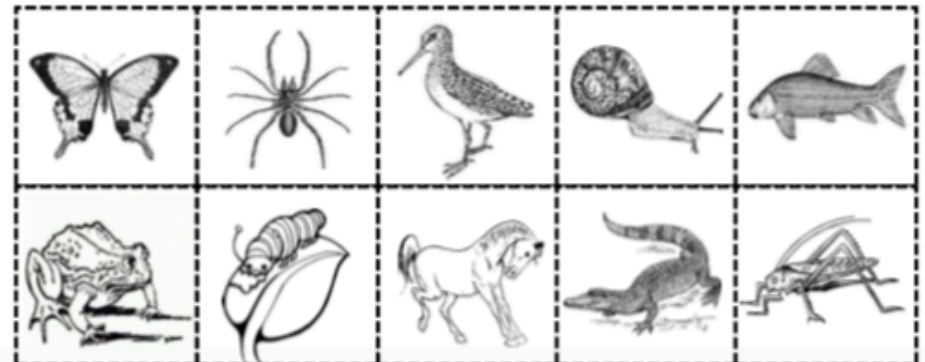


Vertebrates vs. Invertebrates

Cut the pictures below and glue them under the correct category.

Vertebrates

Invertebrates



The answers are on page 25

Vertebrates

Animals that have a backbone can be split into 5 groups.

mammals

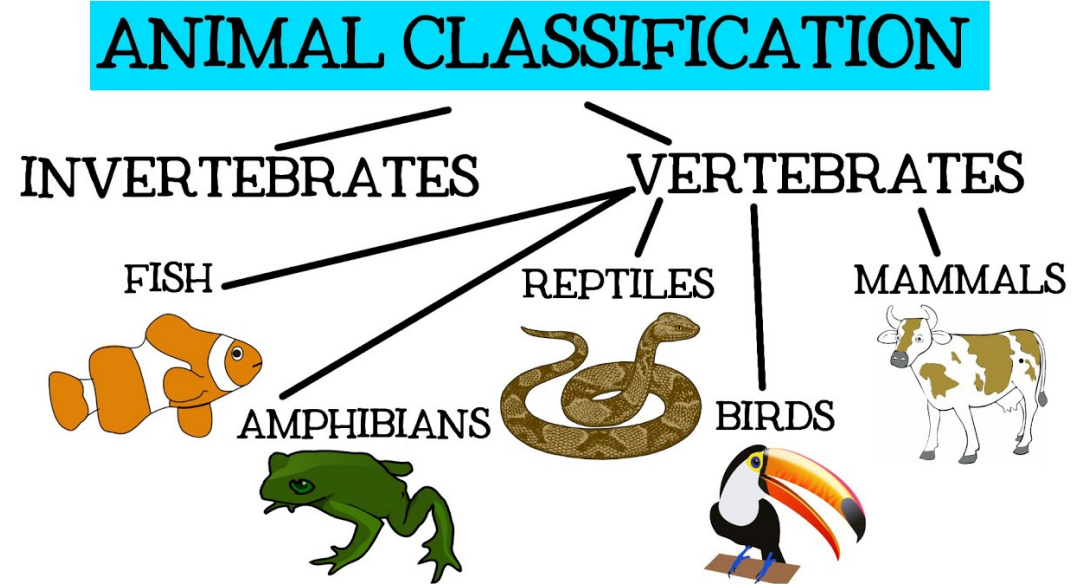
birds

amphibians

fish

reptiles

Talk to your grown up about any animals you know that might fit into these groups.



Classification

Scientists have identified different characteristics to help us identify which group an animal belongs to.

mammals

birds

fish

reptiles

amphibians

Let's find out more

Classifying Animals

Vertebrates are animals with backbones. They can be broken into special categories...



Mammals

Mammals have hair or fur. Most mammals are born alive. Female mammals make milk for their young. Mammals breathe with lungs.



Reptiles

Reptiles are vertebrates with scaly skin. They have tough scales to protect them. They breathe with lungs. Some live on land and some live in water.



Fish

Fish spend their whole lives in water. They breathe by using gills and reproduce by laying eggs. Most are covered in scales and a slimy coating.



Amphibians

Amphibians spend part of their lives in water and part on land. They are usually born with gills. As they get older, they grow legs and lungs & live on land.



Birds

Birds have a beak, feathers, wings, and two legs. They breathe air with lungs and lay eggs to reproduce.



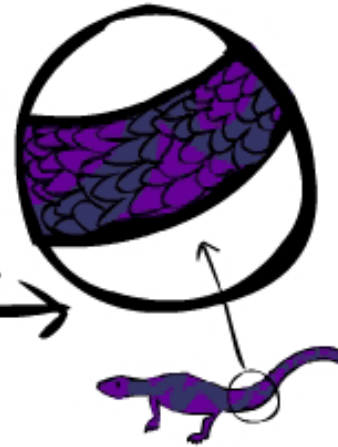
Reptiles

How do you recognise reptiles?
Look at these characteristics.



REPTILES

- have scales, not fur.
- they have dry skin.



- usually lay eggs,
sometimes live young
- cold-blooded.



Can you name any reptiles? Talk to your grown up.

Mammals

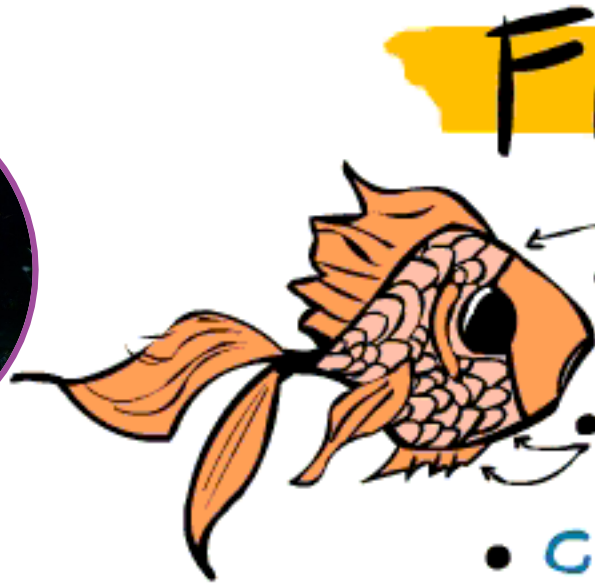
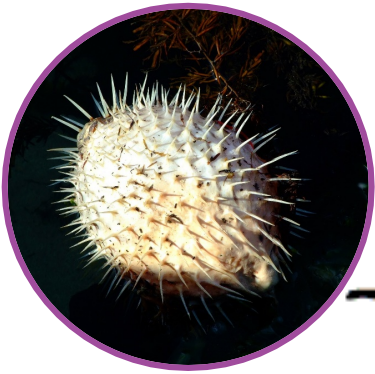
How do you recognise mammals?
Look at these characteristics.



How many mammals can you name?
Talk to your grown up.

Fish

How do you recognise fish?
Look at these characteristics.



FISH

- breathe underwater using gills.
- have scales and fins.
- cold-blooded.
- lay eggs.



Can you name any fish? Talk to your grown up.

Reptiles

How do you recognise amphibians?
Look at these characteristics.



AMPHIBIANS

- live on land & in water.
- webbed feet.
- breathe with lungs & gills.
- cold-blooded.
- moist smooth skin, (no hair or fur)
- 4 legs (sometimes none)
- lay many eggs.



Can you name any amphibians? Talk to your grown up.

Birds

How do you recognise amphibians?
Look at these characteristics.



BIRDS

- have feathers & wings →
- lay eggs
- have 2 legs
- ear holes instead of ears.
- warm-blooded

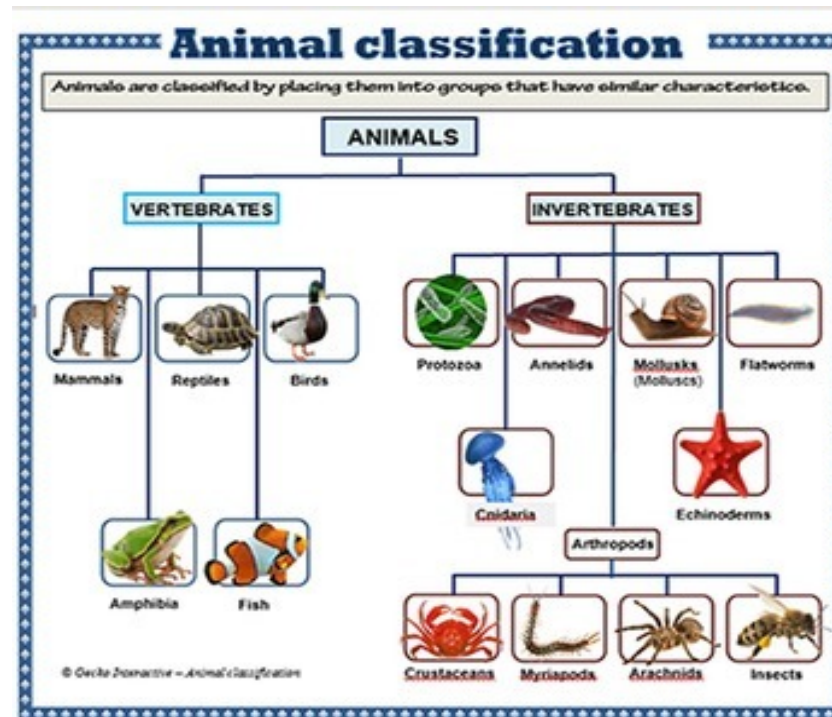


Can you name any birds? Talk to your grown up.

Let's Review

That's quite a lot of information! Watch this video to help you remember. The link is on our Remote Learning page too.

<https://www.youtube.com/watch?v=4VixROiu8Qg>



Did you
Know ?

Different Types of Animals



Did you know that humans are animals?
Yes we are! But which of the five animal groups do we
belong to?

Whales swim in the sea but they aren't fish. Do you know
how they are classified and why?

Do all mammals give birth to live young?
Can you think of a mammal that lays eggs?

Did you
Know ?

Different Types of Animals



You are an animal
and you belong to the
mammal group.



The duck-billed platypus
and the echidna, or spiny
anteater, are mammals
that lay eggs.

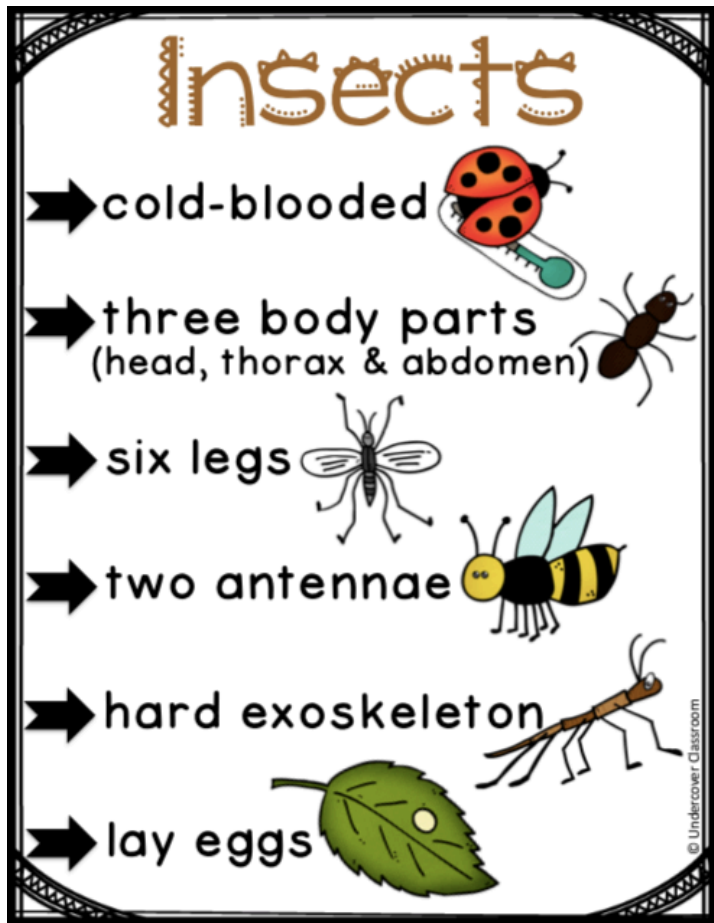


Whales are warm
bloodied and give
birth to live young



A Word About Insects

Insects are one group of invertebrates (no backbone).



Are spiders insects? Look carefully at the characteristics of insects! What do you notice about the number of legs?

Do you know what group spiders belong to?

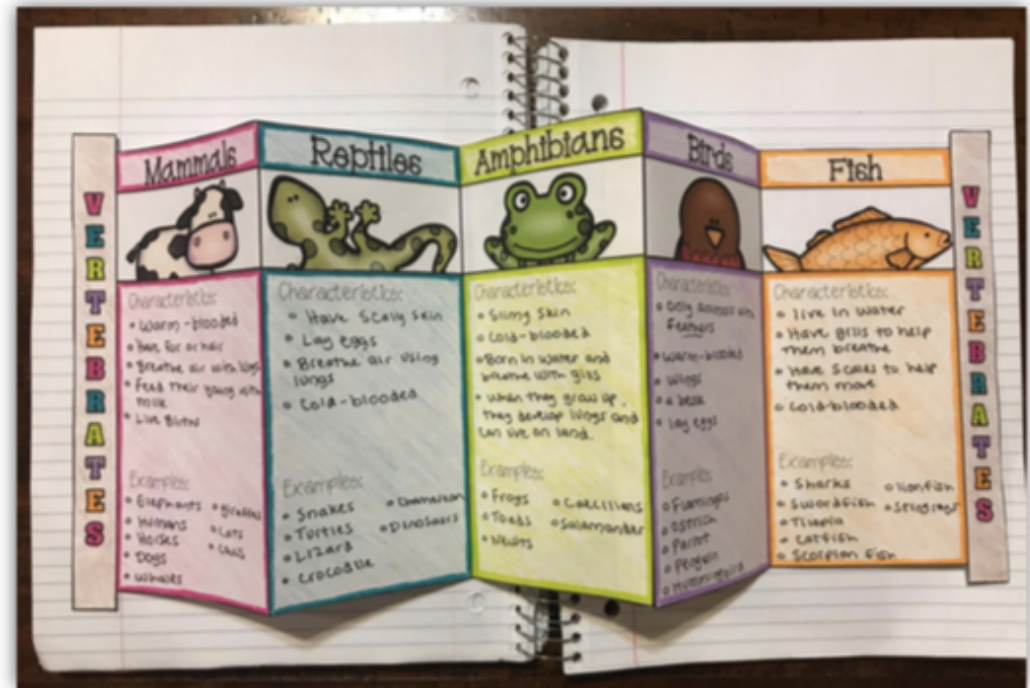
Talk to your grown up about any insects you know.

Your Task

Now you have found out about different animal groups, I would like you to create a leaflet explaining the characteristics of each group and giving 4 or 5 examples of animals in each group.

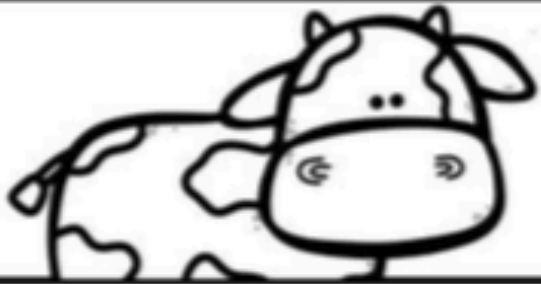
You could make a zig zag book like this, using the template on the next two pages, or you could design your own way to present this information.

You may use bullet points in your leaflet.



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Mammals



Characteristics:

Examples:

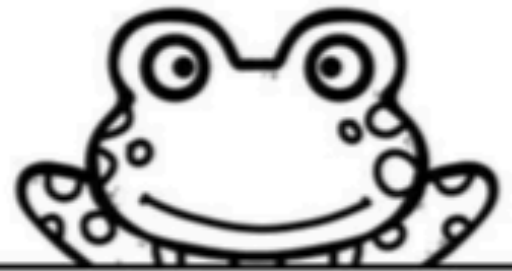
Reptiles



Characteristics:

Examples:



Amphibians



Characteristics:

Examples:

**Make sure
you use your
neatest
handwriting
and check
all your
spellings.**

Birds	Fish
	
<p>Characteristics:</p> <p>Examples:</p>	<p>Characteristics:</p> <p>Examples:</p>

Glue Here

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Challenge



Have a go at this quiz to see if you can identify which group of animals is which.

Look out for a tricky question at the start. The information on page 20 might help you!

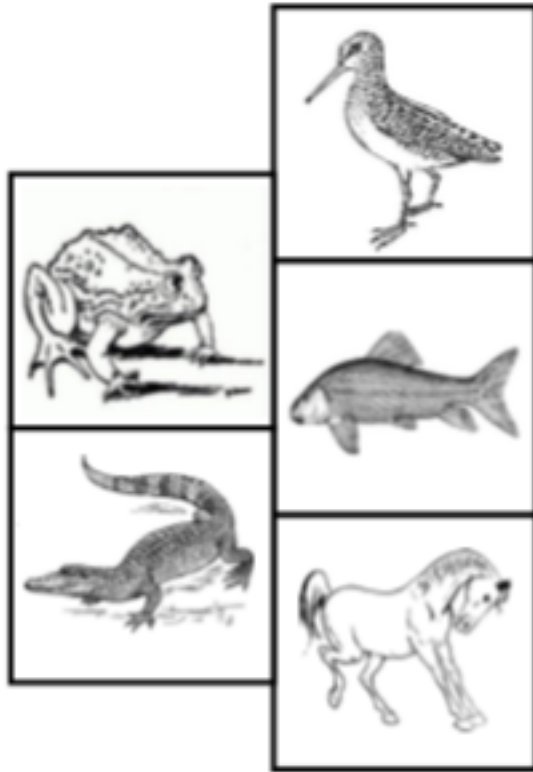
Follow the link on the Remote Learning page to find the quiz.



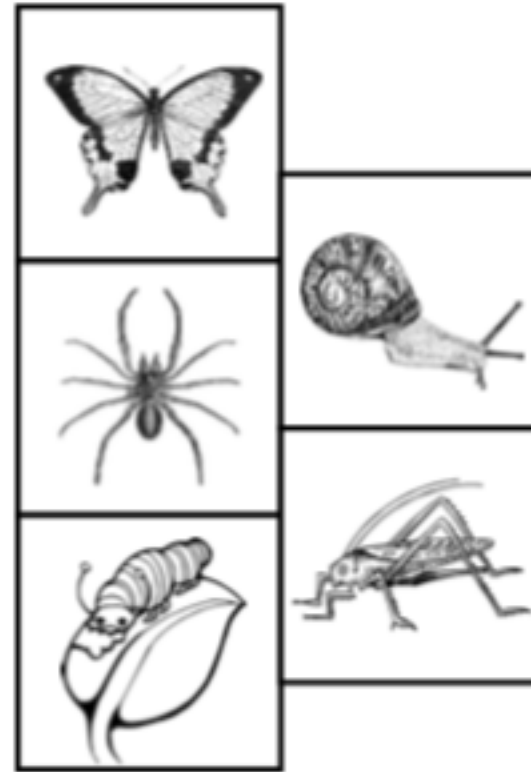
<https://www.youtube.com/watch?v=GfCRaUXIfiw>

Answers

Vertebrates



Invertebrates



Well done Year 2. You are
super stars.



YOU ARE A SUPERSTAR!