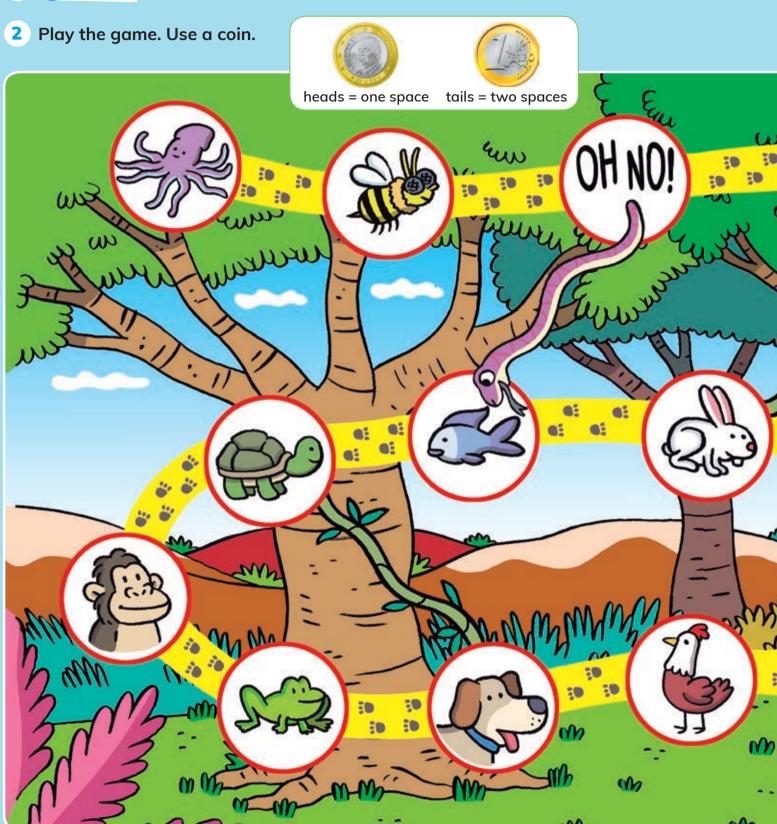
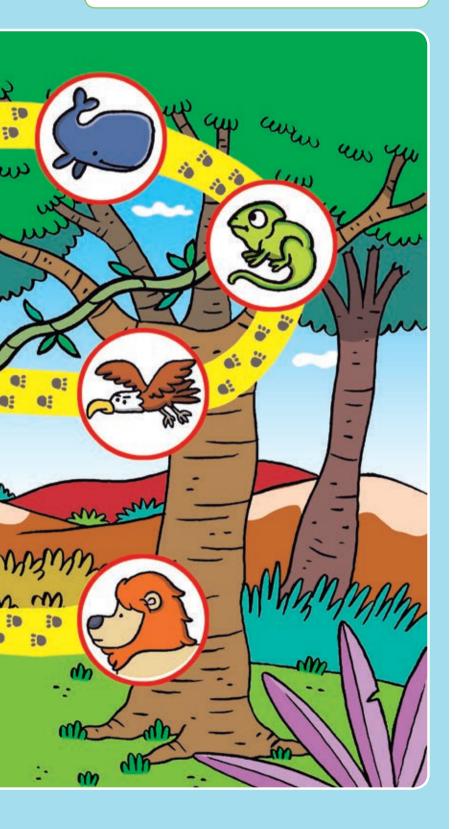
1 Animals

1 Watch. What is your favourite animal?



Questions (= one point each)

- a. What is it? It's a ...
- b. What does it eat? It eats ...
- c. Does it lay eggs? Yes, it does. / No, it doesn't.





3 True or false?

- **a.** Living things grow, reproduce and die.
- b. Cats are reptiles.
- **c.** Fish have got scales.
- d. Spiders are vertebrates.
- e. Birds lay eggs.

4 Look. Is this a vertebrate or an invertebrate?



What are animals?

Animals are living things. Living things can be divided into kingdoms.



Most **Protoctists** have got only one **cell**. Many protoctists are very small. Most of them, such as **algae**, live in water.

Some **Fungi**, such as **yeast**, have got only one cell. Other fungi have got more than one cell. Fungi don't make their own food. We eat some types of fungi, such as **mushrooms**.





Plants have got more than one cell. They get energy from the **Sun**. Plants make their own food. They can't move from one place to another.

Animals have got more than one cell. They need **food**, **water** and **oxygen** to live. Animals can't make their own food. They can move from one place to another.





Prokaryotes, such as **bacteria**, are very simple living things. They have got only one cell. They are very, very small. You can only see them with a **microscope**.

1 Copy and complete the table with the living things in your notebook.

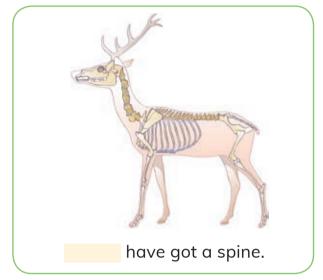
tree mushroom dog algae bacteria

Prokaryotes	Protoctists	Fungi	Plants	Animals

Watch. Copy and complete with Vertebrates or Invertebrates.

There are two main groups in the Animal Kingdom:

a.



b.



3 📶 Classify. Vertebrate or invertebrate?



jellyfish



monkey



owl



fish



caterpillar



snail



human

4 Listen. Stand up if it's a vertebrate. Sit down if it's an invertebrate. 🕠 002

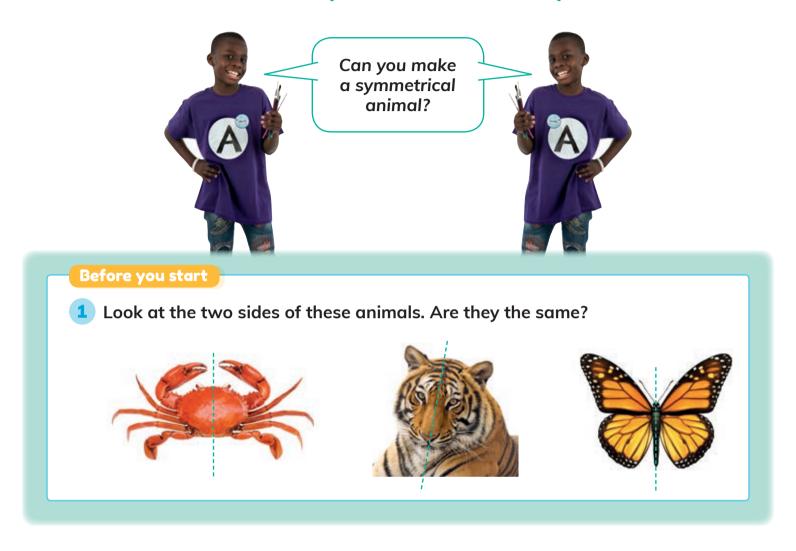


At home

Find two vertebrates and two invertebrates that live near your home.



Make a symmetrical butterfly



Almost all animals are **symmetrical**. This means their **left** and **right** sides are the same.



Planning

- 1 Fold the card in half. Draw an outline of half a butterfly.
- **2** Cut out your butterfly.





- 3 Use the paintbrush. Put some paint on one side of your butterfly.
- 4 Fold and press.





5 Open carefully. You have got a beautiful butterfly!

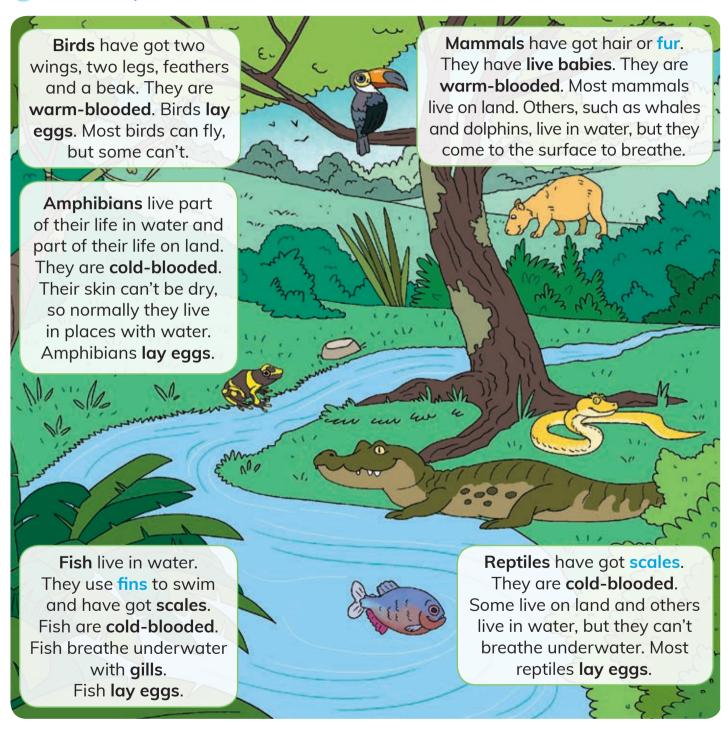


- 6 Display your butterflies around the class.
- D Look at your classmates' butterflies. Are they symmetrical?

What types of vertebrates are there?

The main types of vertebrates are mammals, birds, reptiles, amphibians and fish.

1 Read. Can you name one vertebrate animal?



2 D Look at the picture. In your notebook, write examples of different types of animals.

Language learning lab

Learn to describe animals with a classmate.

It's got ... / It hasn't got ...

a tail	wings	scales
gills	feathers	fur

It's a bird / a mammal / an amphibian / a fish / a reptile.

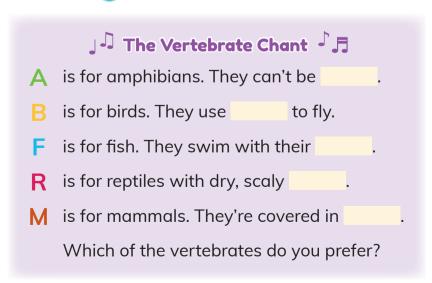
- a. Choose an animal. Write three sentences
- **b.** Play the guessing game.
- 3 No Investigate using the Internet and answer the question.



Whales live in the water, but they aren't fish. Why not?



4 Listen and say the chant. (1) 003





What types of invertebrates are there?

97% of all animals are invertebrates. They haven't got a spine.

There are many different types of invertebrates. Let's look at four groups:

Arthropods are the biggest group of invertebrates. They live on land or in water. They have got antennae and legs with joints. They have got an exoskeleton. It protects their body.



Worms have got long, soft bodies. They haven't got legs. They live on land and in water. Some worms have got round bodies and some worms have got flat bodies.



Echinoderms live in the ocean. They have got **spines**. Some use their very small feet to move on the ocean floor.





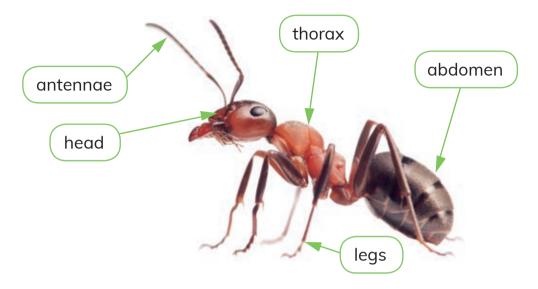


Molluscs have got soft bodies. Many molluscs have got a **shell** to protect their bodies. Many live in the sea. Some, such as snails, live on land.



1 Listen and point. (1) 004

An ant is an **insect**. Insects are arthropods with three main body sections: **head**, **thorax** and **abdomen**.



- What type of invertebrate is it? Tell a classmate.
 - a. It hasn't got legs. It doesn't live in water.
 - b. It's got wings and an exoskeleton. It's got six legs.
 - **c.** It lives in the ocean. It's got a shell. It's got a soft body. It hasn't got feet.
- 3 III Draw these animals in your notebook. Write the descriptions.







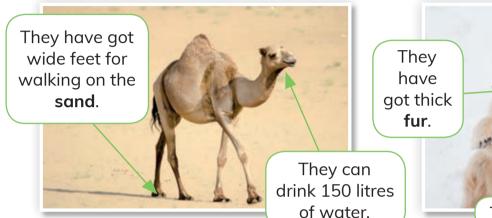


How do animals adapt?

There are animals all over the world. They **adapt** to their **environment**.

Camels live in the desert. They need to adapt to a **hot**, **dry** environment.

Polar bears live in the Arctic. They need to adapt to a cold environment with **ice** and **snow**.





Some animals use **camouflage** for protection.



Arctic foxes change their colour. They are white in the winter and brown in the summer.



- 1 🗐 Listen. Where do these animals live? 📢 005
- Describe the pictures. Are they adapted to the environment?





Science lab



How do polar bears stay warm?

Polar bears live on the ice. They have thick fur and a thick layer of fat. Can fat help **your** body stay warm?

Hypothesis

'I think fat can / can't help my hand stay warm longer'.

Materials

- a large bowl with water a timer and ice
- a spoon

- fat (for example butter)
- two freezer bags



Step 1

Put your hand in the ice water. Use the timer. When it's too cold, take your hand out.

Write the time in your notebook.



Step 2

Turn one bag inside out.

Put it inside the other bag.



Step 3

Put the fat between the two bags.

Seal the bags together.



Step 4

Put your hand inside the bags, like a glove.

Repeat step 1. Compare the times.



D Watch. Compare your results with a classmate. Fill in the worksheet. 😃



What do animals do?

All animals eat, breathe, reproduce and interact with their environment.

1 Watch. Find two kinds of interaction.

Nutrition

Animals eat many different kinds of foods.



Omnivores
eat plants and
animals. They
have got special
teeth so that
they can eat
both plants and
meat.





Herbivores eat plants. Many types of animals are hebivores, such as mammals, insects and birds. Parasites
live on or
inside other
animals
and feed on
them.



2 In your notebook, classify these animals as carnivores, herbivores or omnivores.

crocodile

rabbit

dog

elephant

rat

snake



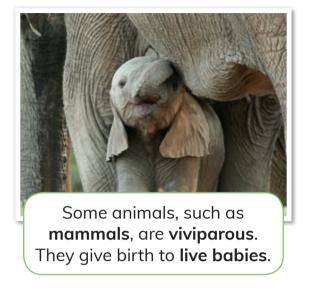
Mammals, birds and reptiles use lungs to breathe. Fish and many invertebrates breathe with gills.

Most **amphibians** live in water when they are babies. Baby amphibians use **gills** to breathe. When amphibians are adults they breathe with **lungs**.



Reproduction

Animals reproduce to make more of their species





3 9 Work in pairs. Which animals are oviparous? Which have got lungs?











Interaction

All animals interact with their environment.

Some animals **fight** with other animals.



Sometimes animals **help** other animals. We call this **symbiosis**.





Review

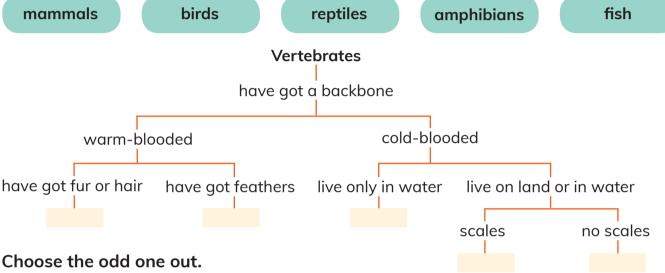
Say three things these animals have in common. Say three things that are different.





Eagles are ... Ladybirds have got ...

Copy the chart in your notebook and complete it with the words in the box.



- jellyfish, horse, panda, whale
- **b.** butterfly, spider, oyster, crab
- carnivore, omnivore, herbivore, viviparous d. antennae, spines, thorax, abdomen

- Play the quiz!
- Do the WebQuest.



Strange animals.

Choose your three favourite strange animals. Answer:

- **a.** What is it?
- **b.** Where does it live?
- c. What type of animal is it?

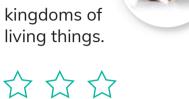




- Read the unit objectives and say what you have learned.
 - Write one objective you can do. a.
 - Write one objective you need more practice with. b.

I can ...

name the



I can ...

explain the difference between vertebrates and invertebrates.



I can ...

name five different types of vertebrates and invertebrates.



I can ...

understand the ways animals adapt to their environment.



I can ...

talk about types of nutrition.



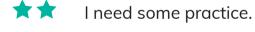
I can ...

say two ways animals reproduce.





I'm not sure.



Lunderstand.

- Where can you go to learn more about animals? Write in your notebook.
- Show what you have learned. Choose one.

Create a poster.



Draw a picture.



Do a presentation.

