

L.O: To understand how animals are suited to their environment and depend on one another.

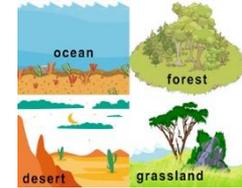
S.C: I can describe the features of plants and animals and their needs.

I can explain how certain habitats help animals and plants survive.

I can explain how plants and animals depend on one another in a habitat.

Extinct: there are no more of that species/animal left in the world.

Habitat: the natural home or environment of an animal, plant, or other organism. It gives 3 important things: **food, water and a safe place to raise their young.**



Camouflage: is a defence that animals use to disguise their appearance to blend in with their surroundings. This helps them hide their location, identity, and movement. This allows prey to avoid predators, and for predators to sneak up on prey.



Predator: An animal that hunts other animals.



Prey: An animal that is hunted and eaten by another animal.

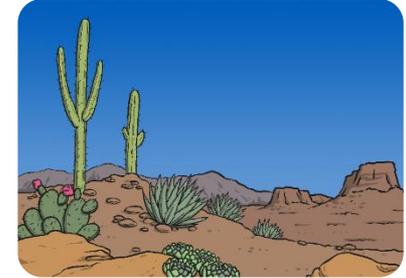
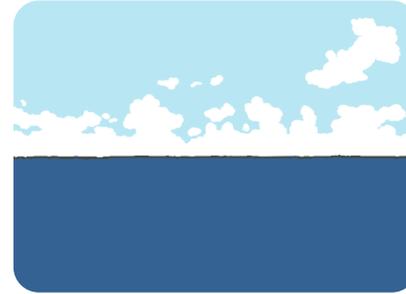


Adapted: a special skill which helps an **animal** to survive and do everything it needs to do. **Adaptations** could be physical changes to the **animals** body or behavioural changes.



Scavengers: an animal that feeds on dead or decaying material. For example, vultures, foxes and hyenas are scavengers.

World Habitats



Do you remember the world habitats we researched last lesson?

- *What animals lived in these habitats?*
- *What plants lived in these habitats?*

Today we will learn about how animals are suited to their environment. Watch this video and stop after 1.17 minutes.

<https://www.youtube.com/watch?v=p15IrEuhYmo>

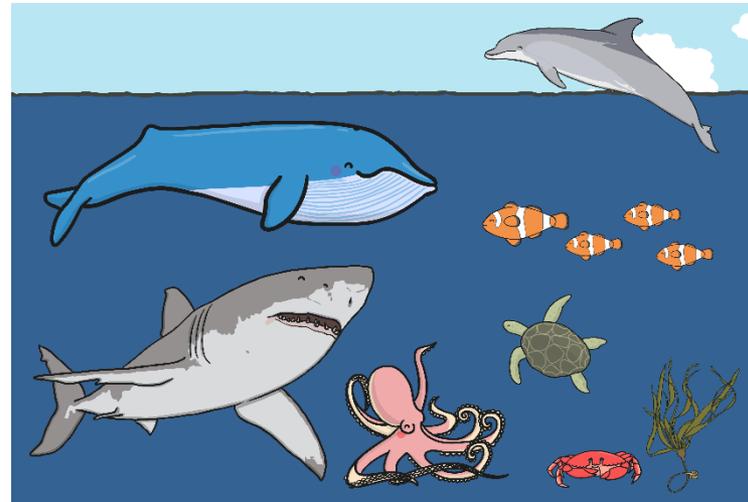
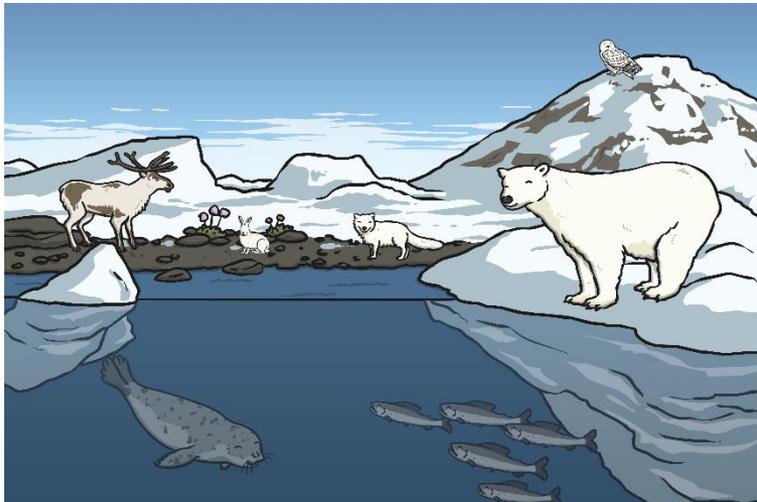


How Do I Survive?

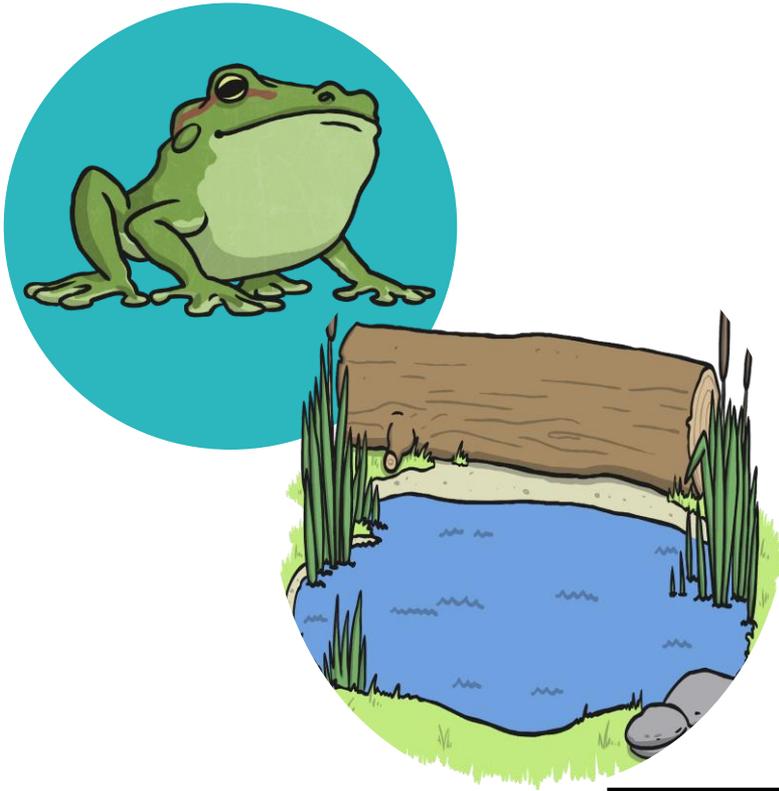
Plants and animals live in **habitats** that suit them.

They have special features that help them to **survive** in their habitat.

This is why animals that live in **cold places** have **thick fur**, and why animals that live in or near **water** are **good swimmers**.



What Do Frogs Need in a Habitat?

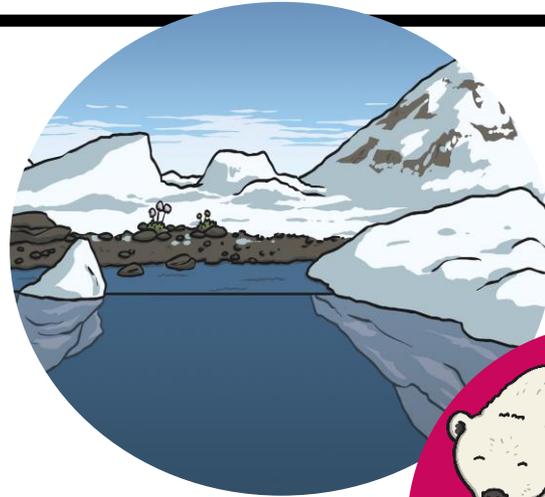


- **Food**, such as flies, cockroaches and spiders are caught on the frog's long, sticky tongue. Bigger frogs can eat bigger animals, like mice and birds.
- **Camouflage**, so that they are less visible to **predators**, such as otters, birds and fish.
- **Water** is needed for drinking and for **laying their eggs** in.

This means frogs are best suited to living in places where there is water, such as near a pond or lake.

What Do Polar Bears Need in a Habitat?

- **Food**, such as seals, reindeer and fish. They can even use their sense of smell to find seals hiding under the snow. They can swim in the sea to catch large marine mammals.
- **Camouflage**, so that they are harder to spot. Their see-through fur reflects the white of the snow around them and lets them blend in. They have two layers of fur and a thick layer of body fat to protect them from the cold. They also have wide, large paws to help them walk in the snow.
- **Sea ice** for hunting on, living on and breeding on.



This means polar bears are best suited to living in the Arctic Circle.

What Do Birds Need in a Habitat?

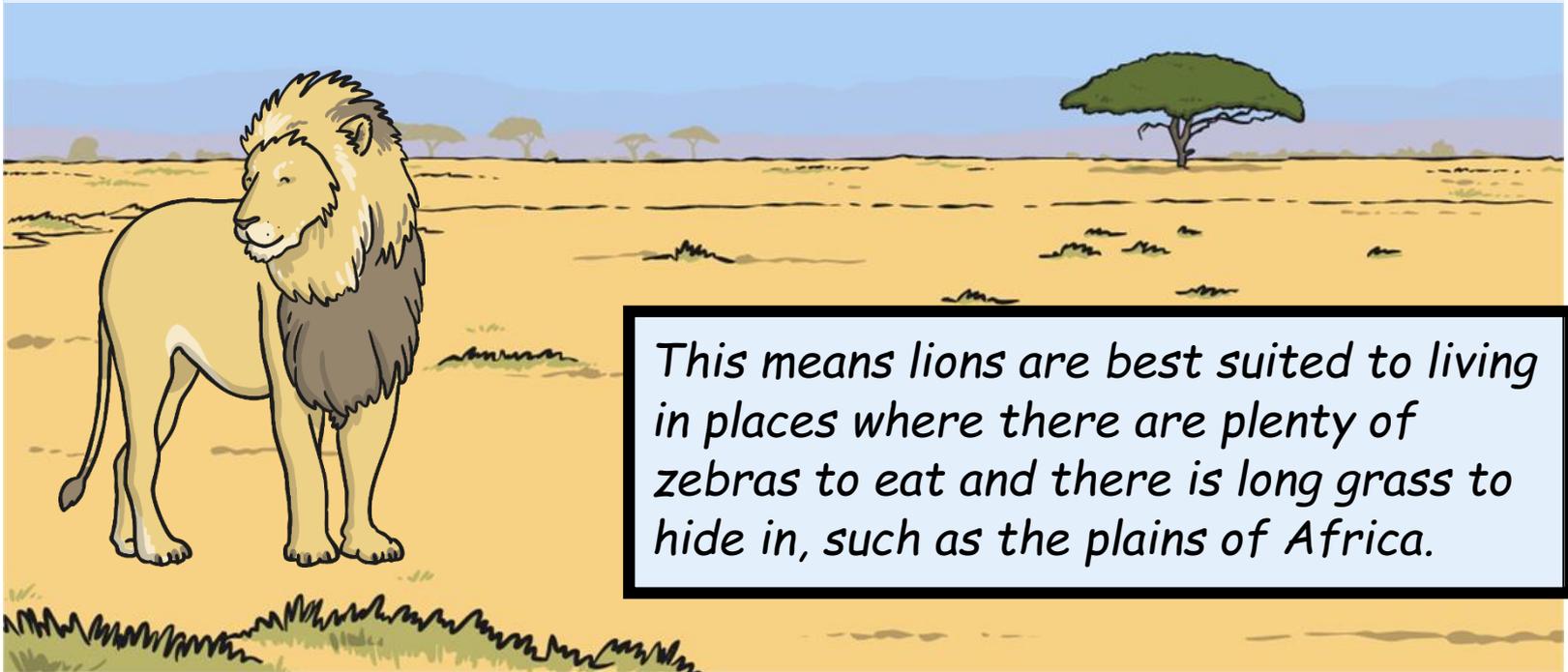


- **Food**, such as berries, worms and small insects.
- **Camouflage**, so that they are less visible to predators.
- **Materials** for nest-building, such as twigs and leaves.

This means birds are best suited to living in places where there are plenty of trees, such as woods, gardens and parks.

What Do Lions Need in a Habitat?

- **Water** to stay hydrated in hot conditions.
- **Prey**, such as antelopes and zebras, to eat.
- **Camouflage**, such as long grass to hide in whilst they hunt their prey.



This means lions are best suited to living in places where there are plenty of zebras to eat and there is long grass to hide in, such as the plains of Africa.

What Do Dogs Need in a Habitat?

- **Water** to stay hydrated in all conditions.
- **Prey**, such as mice, voles, rabbits, and other small animals are caught and eaten by wild dogs. Pet dogs are fed a diet of either dry food or meat by their owners.
- **A den** to feel safe in. In the wild, this is a warm, dry place like a cave but, for a pet dog, this would be a crate or bed.



This means wild dogs are best suited to living in places where there is plenty of water and caves to stay dry in. Pet dogs are best suited to living with their owners in a warm, dry house.

What Do Pandas Need in a Habitat?

- **Food and Water**, to stay healthy and hydrated in all conditions. Both come from bamboo, which grows in cool forests. They also eat other plants and even small rodents.
- **Camouflage** to hide in. The panda's white fur helps it hide in the snow in the mountains, while the black patches help it hide in the shade.

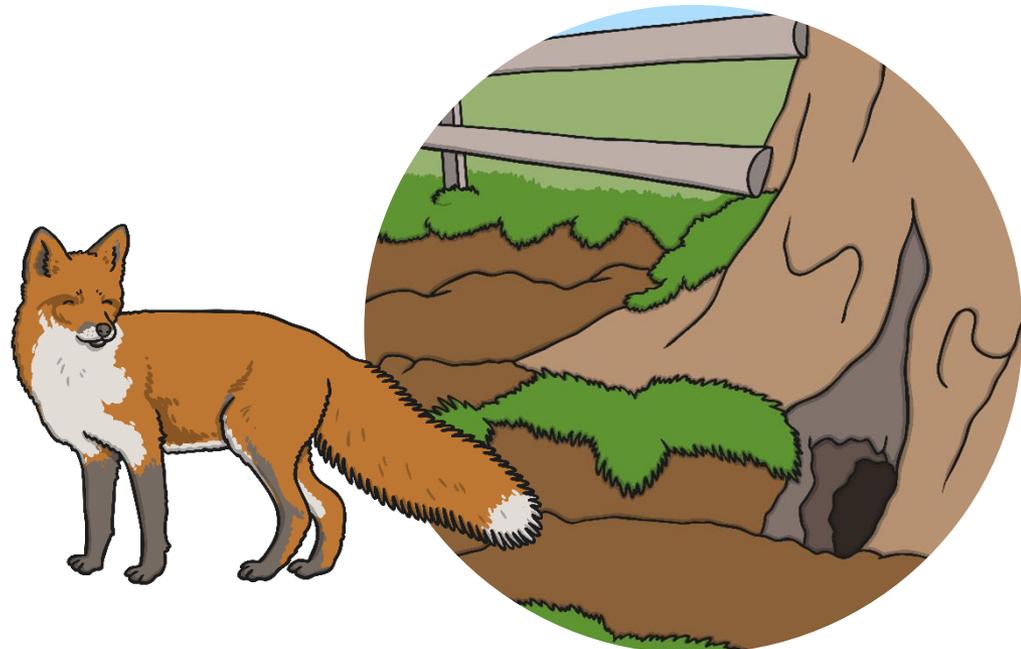
This means pandas are best suited to living in places where there is plenty of bamboo and places to hide, such as a forest.



What Do Foxes Need in a Habitat?

- **Water**, to stay hydrated in all conditions.
- **Prey**, such as birds and mice. They are **scavengers**, which means they will eat almost anything like insects, earthworms, fruit, berries, and food waste left by humans.
- **A den** to live in. This is usually a hole under the ground.

This means foxes are best suited to living in places where there is plenty of water, prey and somewhere for them to make a den, such as a forest.



Animal Habitats

We (humans) are able to change our environments to make them habitable with technology and buildings. We are able to live in most conditions. Some animals cannot do this and have become **extinct** as a result.



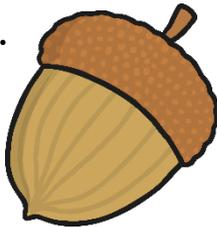
Dependency

Living things in a habitat **depend** on each other. This means they need each other to stay alive.

Squirrels and oak trees are part of a woodland habitat.

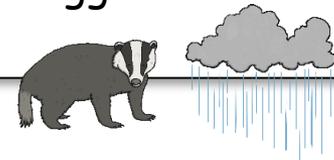
Why might this squirrel need an oak tree to stay alive?

Food: Acorns are a squirrel's favourite food.



Safety: Living high in an oak tree gives squirrels protection from foxes and badgers, and gives them a safe place to have babies.

Shelter: The oak tree protects the squirrel from the wind, cold and rain, and bigger animals.

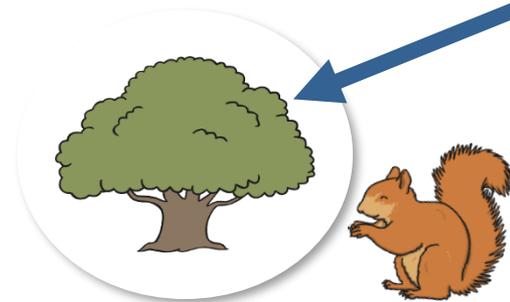


Why does an oak tree need a squirrel?

The oak tree needs the squirrel to **spread its seeds**.

The squirrel collects lots of acorns, and buries some to save for later.

It carries them far away from the tree and hides them under the ground, away from other animals.



Sometimes the squirrels forget to go and dig them up again.

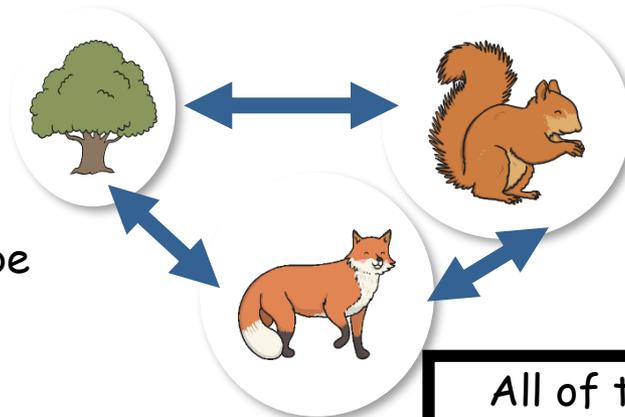
These acorns grow into new oak trees



Why do foxes need an oak tree?

If there were no oak trees, there would be fewer squirrels, so there would be less food for the foxes.

Oak trees need foxes too! If there were no foxes, there would be more squirrels. The squirrels might eat all of the acorns and then no new oak trees could grow.



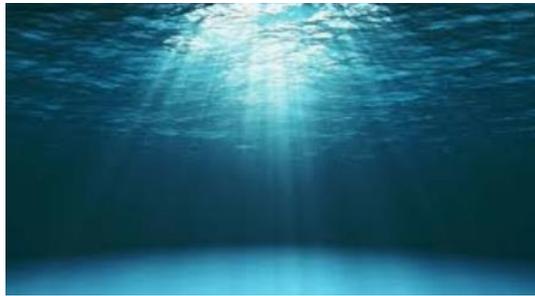
All of the living things in this habitat depend on each other to survive.

Skills - Activity 1

Choose **one** habitat below. Think of an animal that lives in that habitat and write why you think it lives there. Think about:

- **Shelter they need**
- **Food**
- **How the animal moves**
- **What safe place they can raise their young.**

Below is an example:

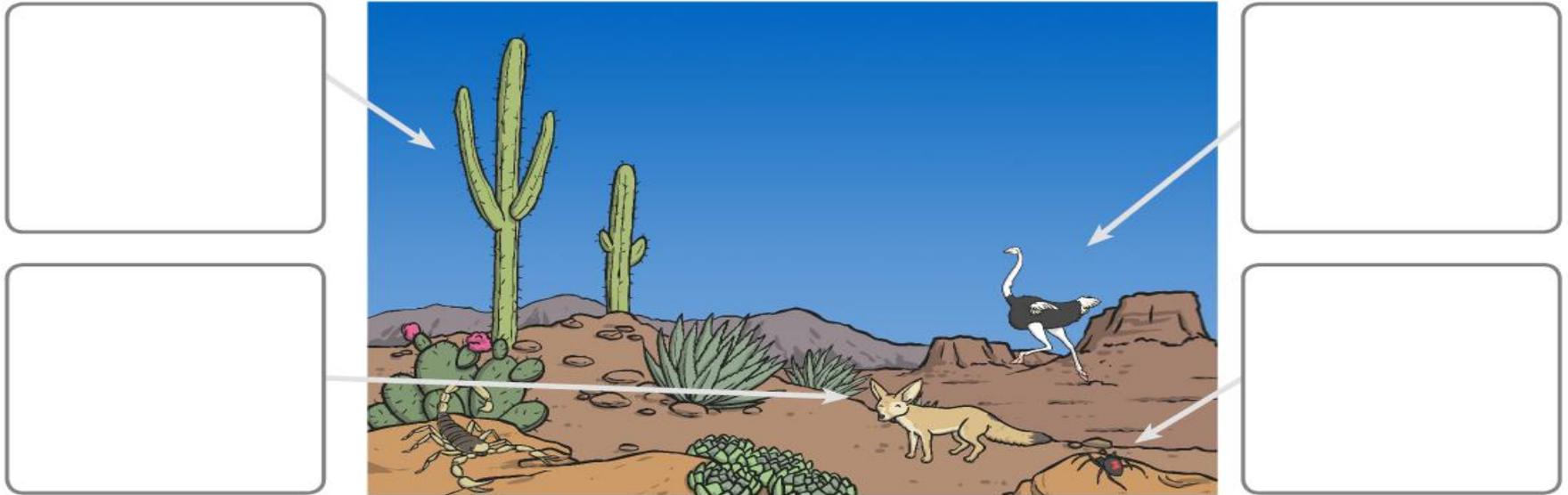


Sharks live in the ocean *because* they can **only breathe in water**. They use their **gills** to breathe underwater and can **swim** very well using **their fins and tails** to catch their prey. In the ocean there are lots of **fish** that sharks can **eat** with their sharp teeth. Sharks use the shallow waters to have their **babies** .



Skills - Activity 2

Look at the picture below and match the pictures to the labels to show how living things in a rainforest **depend on each other**.



Plants provide food and water for animals.



Birds eat cactus fruits and spread seeds.



Insects eat the leaves, flowers and fruit.



Desert foxes eat insects, birds and plants.



Choose a keyword from the list below to complete the sentence:

Plants need animals to _____. Animals need plants for _____ and _____.

Key words: food spread seeds eat shelter

Core and Extension - Activity 1

You are going to look at these animals in the habitats below. Write if you think they can survive in the habitat and explain why. Think about:

- **Shelter they need**
- **Food**
- **How the animal moves**
- **What safe place they can raise their young.**

Here is an example:



Sharks cannot survive in a forest because they can only breathe in water. They use their gills to breathe underwater and can swim very well using their fins and tails to catch their prey. However, in a forest they would not be able to move around to catch their prey. In the ocean there are lots of fish that sharks can eat with their sharp teeth. They also would not be able to run away from predators or have a safe place to lay their eggs. Sharks need shallow waters to have their babies

A polar bear in the desert



Core and Extension - Activity 2

Look at the picture below and match the pictures to the labels to show how living things in a rainforest depend on each other.



Monkeys live in trees and eat fruit, insects, frogs and birds.

Trees give shelter and food to animals.

Jaguars eat deer, monkeys, frogs, snakes and fish.

Deer shelter in fallen leaves and eat leaves, grass, fruit and berries.

Birds eat fruit and scatter seeds so new trees can grow.

Snakes live in fallen leaves and eat insects and frogs.

Insects shelter in trees and eat the leaves.

Frogs shelter in trees and eat the insects.

Then complete the sentence:

Plants need animals to _____. Animals need plants for _____ and _____.

Key words: food spread seeds eat shelter