# WOLVES





## Introduction

The Wildwood Animal Workbooks for Key Stage 2 include Wolves, Badgers, Otters, Frogs and Owls. Each workbook follows a standardised pattern so that children can select different animals to study but still cover the same themes.

A companion pack on wolves is also available; Let's Talk Wolf is a wolf communication programme using body language and facial expressions, linked to the SEAL and antibullying programmes.

The activity sheets are appropriate for use either as an introduction before a visit or as follow up work. Each activity sheet is designed to link in with and support National Curriculum Programmes of Study for different subjects, including Science, Literacy, Numeracy and Art. There are also Key Stage 1 workbooks covering the same animals to aid differentiation.

# **Activity Sheets**

The following list gives details of the activity sheets contained in the workbook, including the relevant National Curriculum P.O.S and the learning objectives which each sheet covers.

# **Adaptation**



SUBJECT: Science

P.O.S: Sc2 - Living things in their environment

LEARNING OBJECTIVES: To understand that different animals are found

in different habitats.

To understand that animals are suited to the environment in which they are found.

# Food Chains and Teeth



SUBJECT: Science

P.O.S: Sc2 - Living things in their environment

LEARNING OBJECTIVES: To understand that most food chains start with a green plant.

To identify the structure of a food chain of a specific animal.

To identify important features of an animal's mouth in relation to its diet.



# Food Chains and Diet



SUBJECTS: Science & Numeracy

P.O.S: Sc2 - Humans and Other Animals

Ma4 - Processing, representing and

interpreting data.

LEARNING OBJECTIVES: To understand that different animals have

different diets.

To present evidence about foods eaten by

an animal in a suitable bar chart.

## Habitats and Homes



SUBJECT: Science

P.O.S: Sc2 - Living things in their environment

LEARNING OBJECTIVES: To identify different types of habitats.

# Tracks and Signs



SUBJECT: Science

P.O.S: Sc2 - Living things in their environment

LEARNING OBJECTIVES: To identify wolves according to observable

features.

# **Human Impact and Conservation**



SUBJECT: Science

P.O.S: Sc2 - Living things in their environment

LEARNING OBJECTIVES: To recognise ways in which living things and

the environment need protection.



# Myths and Legends



SUBJECT: Literacy

P.O.S: En2 - Myths, Legends & Traditional Stories

LEARNING OBJECTIVES: To understand the difference between

myths and legends and fact.

## Quiz



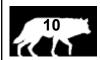
SUBJECTS: Literacy & Science

P.O.S: En2 - Reading for information

Sc2 - Living things in their environment

LEARNING OBJECTIVES: To scan texts to find information.

# The Wildwood Wolves



SUBJECTS: Art

P.O.S: Exploring and developing ideas

LEARNING OBJECTIVES: To record from firsthand observation.

# Life Cycle



SUBJECT: Science

P.O.S: Sc2 - Living things in their environment

LEARNING OBJECTIVES: To understand that adults have young and

that these grow into adults which in turn

produce young.



#### Teacher's Notes

# **Activity**



SUBJECT: Literacy

P.O.S: En2 - Reading strategies

LEARNING OBJECTIVES: To recognise words and show understanding

of their meanings.

# **Activity**



SUBJECTS: Art & English

P.O.S: Investigating and making art, craft and

design

En2 - Nonfiction and nonliterary texts.

LEARNING OBJECTIVES: To develop control of tools and techniques

in art and design.

To understand the structural and

organisational features of instructions.

# Glossary



SUBJECTS: Science & English

P.O.S: Sc2 - Life processes and living things

En3 - Spelling

LEARNING OBJECTIVES: To develop understanding of scientific

vocabulary.

To have a secure understanding of the purpose and organisation of a glossary.

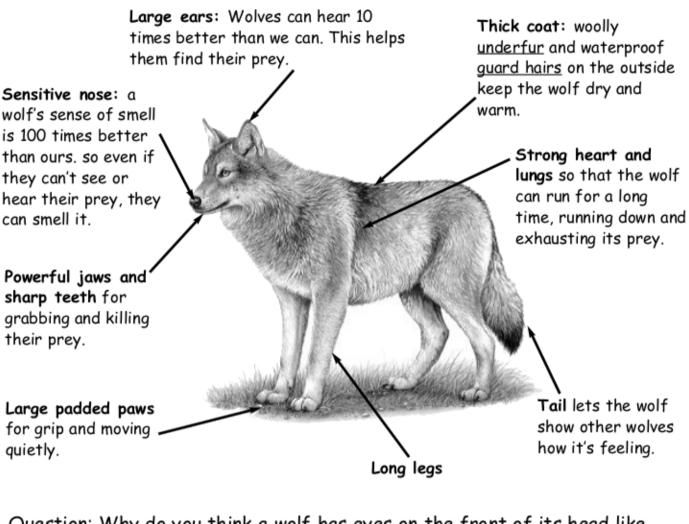
Please note that throughout the pack, underlined words can be found in the glossary.



## Adaptation

# Life as a Hunter

Wolves are large <u>predators</u> which live and hunt together in family groups called <u>packs</u>. Wolves are intelligent animals that have lots of features which help them find and catch their <u>prey</u>.



Question: Why do you think a wolf has eyes on the front of its head like us but prey animals like deer have eyes on the sides of their heads?

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Question: Why do you think long legs might be important to a predator?

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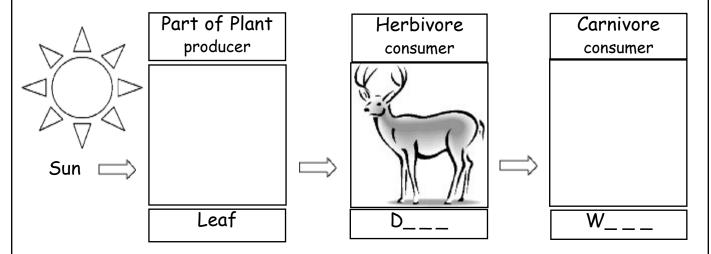




Food Chains Teeth

# Food Chains and Teeth

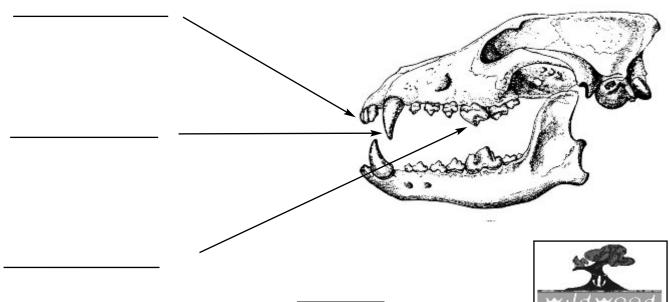
Can you draw and fill in the gaps of this simple food chain?



Wolves have teeth which are used mainly for eating large mammals like deer but they will also catch small mammals and birds. The teeth are different shapes with:

- small <u>incisors</u> for cutting.
- <u>canines</u> for holding and tearing.
- <u>carnassial teeth</u> for slicing flesh.

Can you name the different types of teeth on this wolf skull?





## Food Chains Diet

# Feeding Time

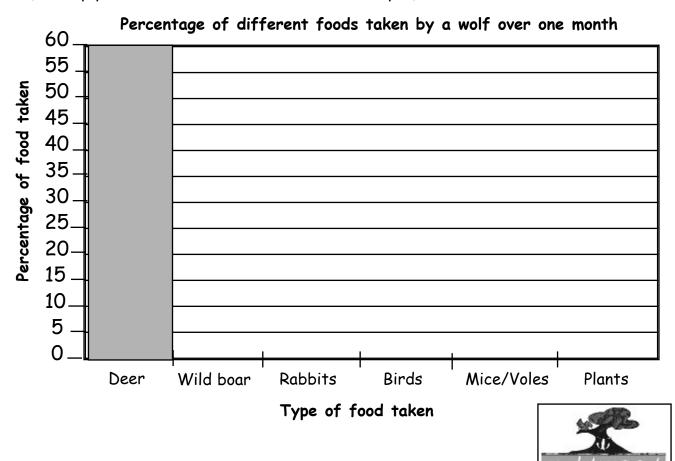
Wolves are hunters or <u>predators</u>. They hunt their <u>prey</u> using scent, sound and sight. Wolves live in family groups called <u>packs</u>, which means that they can work together as a team to hunt for <u>prey</u> animals that are bigger than they are. European wolves mainly eat large animals like deer and wild boar. A single wolf could catch smaller <u>prey</u> such as rabbits, mice, voles and birds on its own.

Wolves are <u>carnivores</u> or meat-eaters. They are <u>opportunistic</u> feeders and will eat just about anything they can catch within their <u>territory</u>. Wolves also need to eat small amounts of plants such as grass, fruits, berries or leaves as they get important <u>nutrients</u> from these.

Percentage (fraction out of 100) of different types of food taken by one wolf over one month

	Deer	Wild boar	Rabbits	Birds	Mice/Voles	Plants
	7-7	in		9		307
Percentage % taken	60	15	15	5	3	2

Can you complete the bar chart below using the information from the table? (To help you, deer numbers have been done for you).





## Habitats Homes



# Habitats and Homes

Wolves are very <u>adaptable</u> and can live in lots of different types of <u>habitats</u>, including moorland, mountains and forests.

Wolves live together in <u>packs</u>. Each <u>pack</u> of wolves has its own <u>territory</u>. This is an area where the wolves live and hunt for food. They will defend it against other packs of wolves.

The size of the <u>territory</u> depends on the type of <u>habitat</u>.

Where there is plenty of food to catch, wolf <u>territories</u> can be quite small (perhaps 25 square miles). If there is less food or it is more spread out, the wolves will need a larger <u>territory</u> so that they can still find enough food.

25 square miles is a lot of space! Blean Woods, the largest woodlands in Kent, are only 11 square miles. Can you look at a map of the place where you live and work out how big 25 square miles is? (Remember, 25 square miles is a square, 5 miles each side.)



## A Place for Pups

This is a wolf's den. The mother wolf digs the den when she is about to have pups. The pups are born in the den and live there until they are about eight weeks old. Adult wolves might use things like caves, bushes and snow scrapes as shelter in bad weather but most of the time they just sleep out in the open. Remember that wolves have thick fur that can keep them warm even in cold, snowy weather.

# How do wolves talk to each other?

#### Scent

Wolves recognise each other by smell. A wolf's sense of smell is 100 times better than a human's so this is a good way of leaving messages for one another! Wolves scent mark trails which they use a lot by marking rocks, stumps or scraped patches of ground with urine. They also have <u>scent glands</u> between the pads on their paws so that they leave smelly footprints wherever they go!

## Howling

Wolves make lots of different noises but the most well-known is howling. Wolves often howl to tell other wolf <u>packs</u> that they are there and to warn off neighbouring <u>packs</u> so that they can avoid fights.



#### Visit Wildwood after dark

Our wolves are most active in the evening and at night time. You can come see them after the park has closed if you come on a Night Tour or a Twilight Tour. If you're lucky, you can even hear the wolves howling!



# Tracks and Signs

Like most wild animals, wolves are shy of humans which means that they are not easy to find. If you want to find out about wolves and where they live, you need to become a wolf detective and look for the signs that wolves leave behind.

Remember, we don't have wild wolves in this country anymore. See if you can find any of the signs below when you are watching the Wildwood wolves.

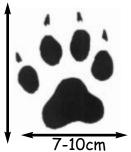
#### Dens

Wolves dig holes in the ground called dens so that their pups can be born somewhere safe. The entrance is quite big, generally about half a metre across. This is bigger than the entrance to a fox's home. Sometimes there is a mound of earth at the entrance and bones or scraps of meat which were brought for the pups.



#### **Tracks**

Wolf tracks can be difficult to tell from dog tracks but they are found much further away from towns and villages. Their tracks are large and their paws spread to support the wolf on snow and help it move quietly.



## Wolf poo

Wolves often use this to mark wolf paths or the edges of their territory.



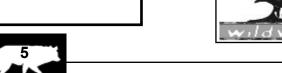
#### Bones

Bones are left over from the wolves' dinner. If a wolf ate a small animal such as a mouse, it would just crunch up the bones and eat them but if wolves are eating a big animal such as a deer, they wouldn't eat the bones. Howeveer, they might gnaw them or crunch them in two to lick out the marrow.



Can you see any signs of wolves in our wolf enclosure? Write down or draw a picture of any signs you see.





# Wolves and People

Hundreds of years ago wolves lived in Britain but humans made the wolf <u>extinct</u> here. This means that there are no wild wolves left in this country anymore. Of course, there are still wolves living in the wild in other countries, so they are not <u>extinct</u> everywhere and even in Britain you can still see wolves in zoos.

As people farmed more and more land and built towns, cities and roads, forests were cleared and large areas of wolf <u>habitat</u> were lost. The last British wolf was killed in Scotland in 1749. Humans were also afraid of wolves and worried that they would kill their cows and sheep so they shot and poisoned the wolves until they became <u>extinct</u> in Britain.

The black solid areas on the map below are where wolves can be found now. The speckled areas show where they used to be found, in addition to the black areas.



Can you find Great Britain on the map above and colour it in?

## Making a comeback

Wolves are gradually spreading back into some of the areas they used to live in in parts of North America and Europe. Some countries, such as Germany, have not had wolves living in them for hundreds of years but now people are starting to see wolves there again.



#### Reintroduction

There have also been some successful <u>reintroductions</u> by humans. Yellowstone Park in America is an example of wolves being successfully <u>reintroduced</u> back into their former habitat.

Question: Would	you like it if	wolves still	lived in	England?	Why?
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# What do you think?

Some people believe that wolves should be **reintroduced** to parts of Scotland and others disagree. Read the arguments below and see if you can work out which are arguments for (want it to happen) and which are against (don't want it to happen) the reintroduction of wolves in this country.

- How can we expect other countries to save their lions and tigers if we won't put back our own large carnivores?
- Wolves may kill farmers' livestock e.g. sheep.
- There are too many deer in Scotland, which are damaging crops and forests because they are eating so much. There is currently no top <u>predator</u> to eat the deer so people have to control their



numbers by shooting them. Wolves would hunt deer and help keep their numbers down.

- People pay to go on wildlife watching holidays.
  Wolves would
  - attract tourists to Scotland which would bring in money and jobs.
- Wolves used to be here as people are the reason they aren't here any more (because they were hunted and lost large areas of <a href="https://habitat.org/habitat">habitat</a>), people have a duty to put them back again.
- Wolves are often the 'baddies' in stories e.g. Little Red Riding Hood, The Three Little Pigs, so some people think they are evil and may attack humans.

See if you can sort the arguments into for and against by writing the numbers of the arguments in the boxes below.

**FOR** 

**AGAINST** 

#### **Activity**

What do you think? Have a class discussion. Some of the children could role play the following characters and put their point of view to the rest of the class.

Sheep farmer Local resident

Land owner Manager of an Ecotourism company

Forester Conservation worker

Do you still have the same opinion you started with?





# Wolf Myths and Legends

There are many tales about wolves from all over the world. Some of these portray them as evil and others show them as brave and good.

#### **Stories**

+ The Seneca tribe of North America tell a story of a warrior who was cared for by wolves. He was a long way from home and his feet were injured. The wolves licked his feet to make them better. They curled up beside him every night to keep him warm and brought him food that they had hunted every day until he was well enough to return home to his tribe.



+ The Vikings had a story of a large, fierce wolf called Fenris, whose destiny was to end the rule of the gods and bring about the age of humans. The gods kidnapped Fenris



and tried to chain him but he shook all his chains off until he was bound by a magical silken ribbon made out of the roots of a rock, the sound of a cat's footfall, the breath of a fish and a bird's spittle. He escaped at Ragnarok (the gods' day of doom) and swallowed Odin, the chief of the gods, whole. This meant the end of the rule of the gods.

Many cultures have stories about wolves looking after orphaned children. The Romans told a legend of how Romulus, the founder of the city of Rome, and his twin brother Remus were looked after by a she-wolf when they were babies.



## Superstitions and Beliefs

- + People believed that wolves eyes can glow in the dark.
- + People used to think that sorcerers could change into a wolf at will by putting on a wolf skin.
- + Some Scottish and Irish families were believed to have descended from wolves and could shape shift or turn back when it suited them.
- In England people used to believe that if a wolf saw a man before he saw the wolf, the man would be struck dumb.
- + Wolf teeth were rubbed against the gums to stop toothache.
- + In France wolf teeth were worn around the necks of young children to protect them from harm.

Stories with Big Bad Wolves - Little Red Riding Hood, Three Little Pigs.

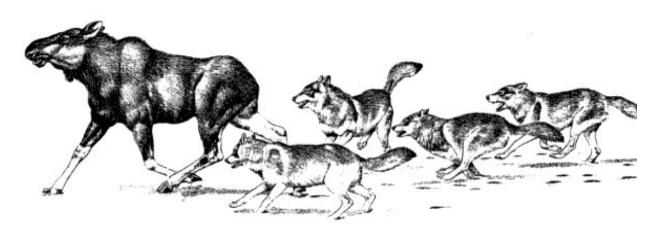
Stories with Caring Wolves - Romulus and Remus, The Jungle Book, The Three Little Wolves and the Big Bad Pig.

Now can you make up your own story with wolves in?



# Wolf Quiz

1. Name one adaptation that helps a wolf to be a hunter.
2. What is a family group of wolves called?
3. How might a wolf mark its territory?
4. Where could you go to see wolves nowadays?
5. Why do wolves work as a team when they go hunting?







# Wolf Life Cycle

Wolves are usually born in the spring. The mother wolf digs a <u>den</u> underground, where the pups are born. When they are born, the wolf pups' eyes and ears are closed and they have no teeth. Over the next few weeks the pups will stay inside the den as their eyes and ears open and they get their first set of teeth. Once they leave the den, the pups spend lots of time playing and then begin learning to hunt.

1. Wolf pups are born in a den.

5. Adult wolf. By the time they are a year old, the pups are fully trained hunters. They may stay with the pack or go off on their own to start a new pack.

2. At 10 days old the wolves' eyes open. Their eyes are blue at first

and go darker as
the wolves get
older. By three
weeks old, the
pups can hear and
they have grown

their milk teeth. They still stay inside the den.

4. At 12 weeks old, the pups start going with the adults on hunting trips.

same as an adult wolf.



hunting trips.

By six months old they will look
the same size as the adults and
they will have lost their baby
teeth. By 8 months they weigh the

3. At four weeks old, the pups start leaving the den regularly.

They start to eat meat and they begin to howl. By the time they are 8 weeks old they have stopped drinking milk.

Question: Why do you think wolf pups are born in a den?

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# **Activity**

# Wolf Word Search

Can you find all the words to do with wolves in the grid below? There are 20, running forwards, backwards, up, down, across and diagonally. Some of the letters are used in more than one word.

$\bar{b}$ o help you, here are some clues for the words you are looking for: P a group $oldsymbol{o}$
volves, T the area where wolves hunt, M what wolves eat,
o, M and a R are all things wolves would eat, C ar
nimal that only eats meat, M the type of animal a wolf is, P
hunting animal, F this keeps a wolf warm, P a baby wolf, T a happy
olf would wag this, S what a wolf does with its nose, H the sound
olves make, S when a wolf bares its teeth, M what baby wolves drink
what a wolf does when it chases something, T you find these in a wolf'
nouth, $C_{-}$ a wolf's home.

C	T	E	R	R		T	0	R	Y
A	P	T	I	В	В	A	R	M	M
R	A	A	D	M	S	T	M		A
N	C		E	D	N	E	C	L	M
I	K	L	E	U	A	E	A	K	M
V	F	U	R	T	R	T	D		A
0	S	M	E	L	L	Н	0	W	L
R	0	T	A	D	E	R	P	U	P
E	G	A	L	F	U	0	M	A	C





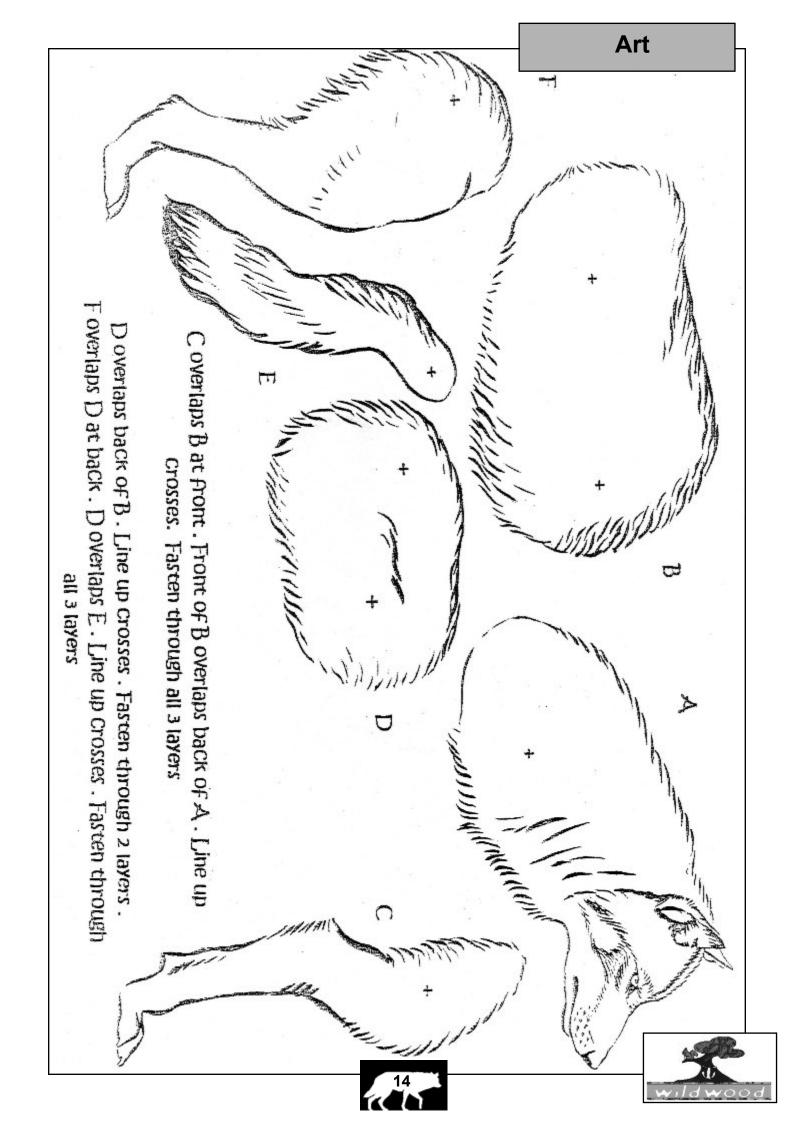
## Make a Poseable Wolf!

To make your wolf, you will need:

- crayons or coloured pencils
- a pair of scissors
- 3 push pins
  - Colour in the parts of your wolf.
- Cut out all the pieces of your wolf.
- C (front leg) overlaps the front of B (front half of body).
   The front of B overlaps A (head and chest). Line up the crosses and fasten through all 3 layers.
- 4. D (back half of body)
  overlaps the back of B (front
  half of body). Line up the
  crosses and fasten through
  both layers.
- F (back leg) overlaps the back of D (back half of body). D overlaps E (tail). Line up the crosses and fasten through all 3 layers.
- 6. Can you make your wolf run? How can you make it look angry or frightened?







## Make a Wolf Mask!

To make your mask, you will need:

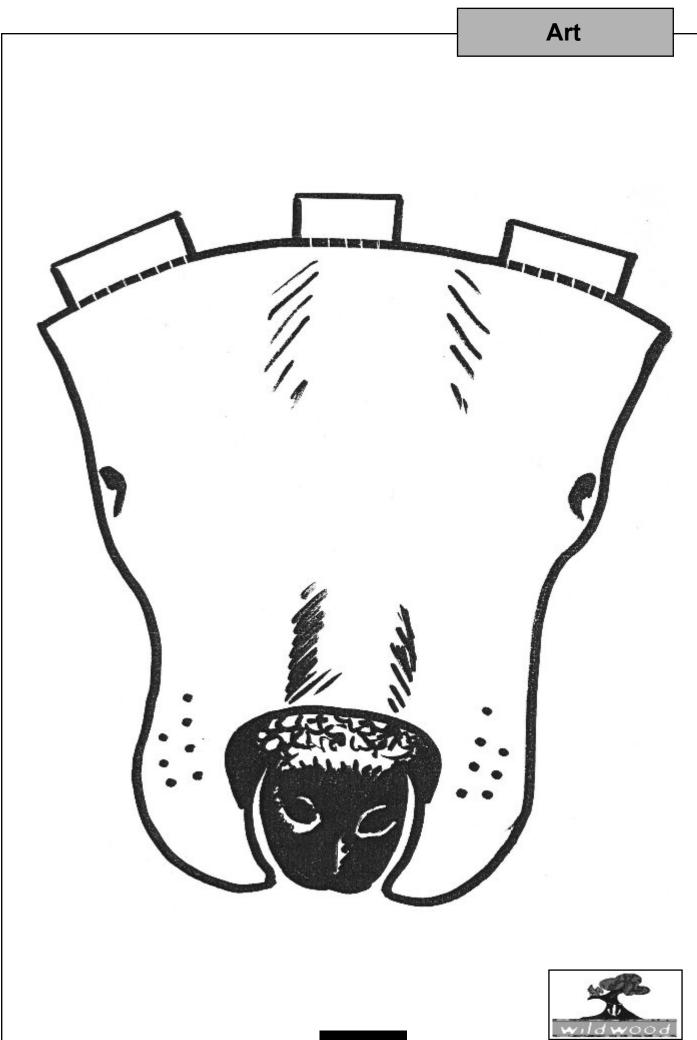
- crayons or coloured pencils
- a pair of scissors
- sellotape or glue
- some thin elastic
- Cut out the wolf face and wolf nose. Make sure you don't cut off the tabs!
- Colour in the face and the nose.
   Ask a grown-up to help you cut out the eye holes.
- Cut the 3 slits in the face and push the tabs through them.
   Fasten with sellotape or glue.
- Measure the correct length of elastic to fit around your head.

- Make two small holes in either side of the mask. Thread the elastic through and tie a knot.
- 6. Your mask is now ready to wear!











### Word List

- adaptable able to respond quickly to change.
- alpha female the female leader of a wolf pack.
- alpha male the male leader of a wolf pack.
- canine fang-like teeth at the side of the mouth often used for stabbing and holding prey.
- carnassial sharp, triangular, scissor-like teeth used for slicing up food.
- carnivore -an animal which eats meat.
- consumer an animal which eats plants or other animals. Consumers are sometimes called carnivores or omnivores.
- extinct no longer exists.
- guard hairs the tough wiry hairs that form the outer layer of an animal's fur.
- habitat a place where an animal lives.
- herbivore an animal which eats plants.
- incisor rectangular-shaped teeth at the front of the mouth usually used for cutting.
- nocturnal animals which are active at night and sleep during the day.
- nutrients parts of foods which animals need to survive and grow.
- opportunistic will take something by chance.
- pack a family group of animals.
- predator an animal which hunts and eats other animals.
- prey an animal which gets hunted and eaten by other animals.
- producer a green plant which can take energy from the sun and make food using the process of photosynthesis.
- reintroduce to bring back an animal which used to be here.
- scent gland a part of the body which produces a smelly oil.
- territory a place where an animal lives, which it defends from other animals.
- underfur a layer of fur underneath the guard hairs, often soft and fluffy so that it keeps the animal warm.



