Did you know?
Fascinating facts about koalas

The life of the koala
How a tiny pink jellybean grows into a koala.

Koala numbers are declining
Find out why.

What is being done to help koalas?
Find out how you can help too!

...and much more!
When Giant Koalas Roamed the Earth

A Brief History of Koalas

Koalas probably evolved over 25 million years ago in the forests that covered Australia at that time. Fossils of several extinct species of koala have been found. These extinct koalas were much larger than the ones we know today. They were like giant koalas!

Koalas feature in many legends from the Aboriginal Dreamtime. Some legends say that koalas have power over the rains and that if people treat them with disrespect, there will be a big drought.

In the days before Europeans came to Australia, there were many more koalas than there are now. Since European settlement in 1788, much of the koala's bushland has been cleared for farms, towns, roads, mines and logging, leaving many koala populations with no homes or food.

From the early 1800s until the 1920s, koalas were killed for their fur. Many people were outvoted, and eventually the koala was made a Protected Species in all states by 1933. This means that no one is allowed to harm a koala. However, there are no laws to protect the gum trees that koalas rely on for food and shelter.

The word 'koala' is thought to have come from an Aboriginal word meaning 'no drink' because koalas obtain most of their moisture they need from gumleaves.

John Price, a servant of Governor Hunter, was the first European to record koalas on 26th January (Australia Day) in 1788 during an expedition to the Blue Mountains.

In 1814, the koala was given the scientific name Phascolarctos cinereus, meaning 'ash-grey pouched bear,' by French and German naturalists.

Today we know that the koala is not a bear. It is a marsupial.

Where Do Koalas Live?

Australia is the only country in the world where wild koalas are found. They live in the states of Queensland, New South Wales, Victoria and South Australia. The map shows where koalas used to live at the time of European settlement in 1788, and where they are found today.

1788

Today

Project Hints

- Find an Aboriginal legend about a koala and include it in your project or read it to your class.
- Find out what it means to be a 'Protected Species'. Does it mean the habitat is protected?
Did You Know? Some Fascinating Facts About Koalas

Koalas have noses which are large and covered with black leathery skin. They are very sensitive to all the smells of the bush. This is important so they can sniff the gumleaves to decide which ones they like and which are safe to eat. Koalas use scent warnings put out by other koalas, and to sense danger. Male koalas also rely on their sense of smell to know when females are ready to mate.

Koalas communicate with each other by making a range of loud hollering and snorting sounds, as well as using scent. Mothers and joeys make soft grunts and clucking, squeaking and humming sounds to talk to each other.

Koalas are not bears. They are marsupials. This means that their young are born very tiny and then grow bigger in the warmth and safety of a pouch.

Koalas’ eyesight is generally poor so they rely on their keen sense of smell and hearing to help them survive in the bush.

Koalas are mostly nocturnal, generally sleeping during the heat of the day and being awake during the night and at dawn and dusk. An average of 18 to 21 hours each day are spent sleeping, resting or nesting. This is how koalas save energy.

Koalas sit and sleep in many different positions, sometimes curled up, sometimes dangling. When climbing down a tree, they come down bottom first. Once on the ground, they are in danger from enemies such as foxes, dingoes and domestic dogs, and also from injury or death by cars. They walk with an awkward gait. They can also run, and can swim if necessary.

An adult male koala can weigh between 8 and 14 kilograms and a female between 6 and 11 kilograms. The larger animals come from the cooler southern parts of Australia, for extra warmth, southern koalas also have thicker fur than northern koalas.

Male or Female. How do you tell?
A mature male is easily recognised by the brown scent gland in the centre of his white chest. He rubs this on the tree, in order to mark his ‘home tree’ to tell other koalas that this is his territory. Females are smaller, have a pouch in the centre of their abdomen and, like young non-breeding males, have a plain white chest.

Koalas have Special Raincoats!
Koalas have thick scaly fur which protects them from both the heat and the cold. It acts like a ‘raincoat’ so they do not get wet when it rains. Their fur varies in colour from light grey to brown, with white patches on the chest and neck and on the insides of the arms, legs and ears. The fur on a koala’s bottom is thickly packed to make a ‘pocket’ for the food branches. It has a speckled look which makes koalas hard to see from the ground.

Koalas are especially adapted for living in trees. They have very strong forelimbs, which are equal in length to their hind limbs, and their body is lean and very muscular. This gives them extra strength for climbing. Despite having no visible tail, they have an excellent sense of balance.

Koalas have Two thumbs!
Koala paws are well designed for grasping and climbing. Rough pads on their palms and soles, and sharp claws, help the koala to grip branches firmly. There are five fingers on each front paw, two of these are opposed to the others. This helps them to hold tightly on to the branches and to grip their food. On the hind paw, of course, there is no claw on the big toe and the second and third toes are joined together to form a ‘grooming’ claw, which is used for scratching and for removing ticks.

Project Hints

• Make a mobile by cutting out a koala picture, gluing it to cardboard and hanging it from paper gumleaves with ‘koala facts’ written on them. Hang it in your classroom.

• What are some other marsupials? Where do most of them live?

“Those beautiful little creatures fascinate me”
Sylvia (10)
Spain

Front paw

Hind paw

Grooming claw
From Pink Jellybean to King of the Gum Trees.

The Life of the Koala

Koala babies are called 'joeys'. The joey is born about 35 days after the parents have mated. A newborn joey looks just like a pink jellybean! This is because it is about two centimetres long, has no fur and its eyes and ears are not yet fully formed.

Incredibly, the joey makes its way from the birth canal to the pouch without any help from its mother, climbing up through the fur on the mother’s abdomen to the pouch opening. Once inside, it attaches itself to one of the two milk teats which swells to fill its mouth.

Koalas are born without fur, and with their eyes and ears not yet fully developed. This joey is about 2 to 3 months old.

Koala joeys are born without fur, and with their eyes and ears not yet fully developed. This joey is about 2 to 3 months old.

The joey stays inside the pouch for the first few months of its life and drinks only mother’s milk. Slowly it grows, developing eyes, ears, and fur.

From about 5 or 6 months, the joey pops its head outside the pouch and feeds upon a special food called ‘pap’. Pap is a soft and runny form of the mother’s droppings which allows the mother to pass on to the joey special micro-organisms which are necessary for the digestion of gumleaves.

By about 7 months of age, the joey will be leaving the pouch for longer and longer periods of time, and it rides on its mother’s tummy or back, gradually getting used to the diet of gumleaves, although it still returns to the pouch to drink milk until it is too big to fit inside.

The young koala leaves home to take care of itself sometime between 1 and 3 years of age, when the mother’s next joey comes out of the pouch. Koalas are fully grown by their third or fourth year.

The breeding season runs from about September to March, and this is a time when koalas are very active. Females start breeding at about 3 or 4 years of age. They can have one joey each year, but not all females breed each year. Some produce joeys only every two or three years.

In good habitat in the wild, male koalas live for about 10 years, while females may live a few years longer. However, koalas in suburban areas might only survive for a few weeks, months, or years, because of the dangers of having to contend with cars and dogs, and of having to live in damaged habitat.

An adult koala eats between 200 to 500 grams of leaves each day. Koalas eat mainly eucalyptus leaves (gumleaves). Occasionally, they will eat the leaves from some other native Australian trees, and they also use certain trees just for resting in.

Very few animals can survive on a diet of gumleaves. They are very fibrous and low in nutrition, and this is why they take a lot of energy to digest. As a result, not all other animals are poisonous.

However, koalas are specially adapted to eat this diet. They have a special part in their intestine, called a cecum, which is large and filled with micro-organisms (tiny organisms) that break down the gum leaves so they are easier to absorb. There is water in the gumleaves, too, so that koalas rarely need to drink.

Koala teeth are specially adapted for their gumleaf diet. Their sharp front teeth nip the leaves from the tree and their back teeth are shaped for cutting and grinding the leaves to extract the most nourishment.

Koalas live in tall open eucalyptus (gum tree) forests. The areas of bushland where they like to live are called their HABITATS.

Koalas can only live in bushland where their favourite trees are growing, and they will only eat a few of the hundreds of species of eucalypts which grow in Australia. Just as people in different countries like the kinds of foods they are used to eating, koalas in different areas of Australia like to eat the leaves from different types of gum trees. For instance, koalas in Victoria eat the leaves of different gum trees than those eaten by koalas in Queensland.

Like pachy for sheep, a forest can only support a limited number of koalas because the available gumleaves can only feed a certain number of koalas. If there are too many koalas in an area of bushland, they may eat more leaves than the trees can regenerate and the tree may die. Then the koalas may die, too.

When the forest is in balance, this does not happen, but when the forest and the surrounding land has been damaged by clearing, logging or pollution, the animals that live in that forest will suffer too. In most cases, we humans are responsible for damaging and changing many fragile ecosystems on earth, some of which support koalas.

Do Koalas Really Get Drunk on Gumleaves?

The Koala’s Diet and Habitat

Some people think that koalas sleep a lot because they get drunk on the eucalyptus oil in gumleaves. That’s not true. Koalas sleep or rest for up to 21 hours each day because their bodies need a lot of energy to digest the tough fibrous gumleaves, and when they are sleeping they save energy.

When presenting your project to your class, dress up as a koala. Make a black nose from an egg carton, and some koala ears, or make a cardboard or papier mache koalas mask.

“Baby koalas like to sleep in gum trees. Stop cutting down the trees because the baby koalas like playing in them.”
Agatha (4)

“I love koalas because they are cuddly and they are cute.”
Meriya (8)

“Out beautiful koalas can’t live without their gum trees.”
Samantha (7)

- Find out more information about ecosystems.
- Find out what micro-organisms are.
- If you live in a koala area, find out what type of eucalypts the koalas in your area like to eat. Bring a potted seedling of one of them to show your class.
The Australian Koala Foundation estimates that there are less than 80,000 koalas left in the wild today. This is a lot less than the millions that were shot in the 1920s for their fur. Action is needed now to halt this alarming decline in koala numbers.

Why are there less koalas today than there used to be?

The Threats Faced by Koalas

Since Europeans first settled in Australia in 1788, Australia’s eucalyptus forests have been vanishing at an alarming rate. More than eighty percent of original koala habitat has been destroyed. This makes it very important that we save what is left.

The main causes for the loss of habitat are:

- CLEARING OF THE LAND for farms, houses, shops, factories, roads, logging and mining. While we humans need modern conveniences, we should plan for the future to use our resources more efficiently and agree to set aside adequate areas for wildlife. We should also plan for other solutions to problems such as transportation.

- Buying and more and more cars, we should use public transport like buses and trains that use less resources per person.

- Burning of the forests means that all wildlife, including koalas, will suffer from less of their homes and food. This results in many koalas experiencing stress, and then becoming sick and dying. They are also more likely to suffer injury or death from cars and dogs.

- Because most koalas live on land that is privately owned, it is very important that landowners are encouraged to protect and regenerate koala habitat.

BUSHFIRES: Koalas are at great risk from bushfires. If a koala population is living in an area of bushland which is surrounded by development, the whole colony could be wiped out in a single fire.

DIEBACK: Dieback is the gradual dying of eucalyptus trees. Scientists think that it may result from damage to the land by man. Large areas of eucalyptus forests have been destroyed because of dieback.

OTHER THREATS: The natural enemies of the koala include dingoes, goannas, powerful owls, wedgetailed eagles, and pythons, which are all a threat to young koalas. Some animals which are not native to Australia, called feral animals, have become a problem for koalas since they were brought here from other countries. These include dogs and foxes. Koalas can also suffer from not having enough food in times of drought.

How would you like a highway through your living room?

What happens to the koala when its habitat is damaged?

Imagine coming home to find that a builder had knocked your house down, as well as most of the houses in your neighbourhood. How would you feel when you arrived home to find your house was gone and you didn’t recognise anything in your street any more? You would feel upset, angry, worried, confused and depressed. Then imagine how you would feel if you couldn’t get to a shop to buy any food. You would begin to get very hungry. What if you couldn’t find somewhere to sleep and rest? Before long you would be tired as well as hungry, and you might also get sick. How long do you think you could survive without food or shelter?

Koalas experience feelings like these when their trees are cleared to make way for new roads or housing estate, for example. If they don’t manage to survive the clearing, finding somewhere new to live has its problems too.

How would you feel if your home was knocked down like koalas’ homes are? You wouldn’t like it very much.

“Think of some other ideas which could help in reducing the amount of bushland that is cut down.”

Project Hint

Disease in Koalas

The main disease koalas suffer from is chlamydia. Chlamydia is an organism which lives in the bodies of most healthy koalas. Chlamydia does not usually make the koalas sick until they get stressed. Then they may get sore eyes and go blind, or get an infection in their chests, or they may get a sore throat, which makes it very difficult for them to eat. The females may not be able to have babies when they are sick. Koalas also suffer from other diseases like leukaemia and other cancers.
There's Some Good News For Koalas Too!

What is being done to help?

Who cares for sick, injured and orphaned koalas?

Fortunately for koalas, there are many caring people around Australia who donate their time to help the thousands of koalas that become sick, injured or orphaned each year. We call these people 'koala carers'. Some veterinarians also donate their time and skills to treat sick koalas and other native wildlife. In some places there are special koala hospitals to treat the large numbers of sick, injured and orphaned koalas that are constantly coming into their care.

Koala carers play an important part in the koala's conservation but the koala's habitat MUST be protected if it is going to survive in the future. When koalas that have been cared for are released back into their home territories, they usually face the same threats that made them sick in the first place, and they may become sick again or they may even die.

How does the Australian Koala Foundation help koalas?

The Australian Koala Foundation (AKF, for short), is an international conservation organisation dedicated to saving koalas and their habitat. These are some of the ways that the AKF helps koalas:

- We work to protect the wild koala and its habitat across the whole of Australia.
- We work on the KOALA HABITAT ATLAS / KOALA MAP to map koala habitats, so that we can use the information to protect the koalas and its habitat.
- We teach people about koalas and their problems. We have a website so that people all around the world can learn more about the koala’s problems and what they can do to help.
- We talk to governments to ask them to pass stronger laws, such as the Koala Protection Act, to protect koalas and their habitats across the WHOLE of Australia.
- We raise money to fund mapping, so we can find out more about koalas and how to solve the problems they face.
- We organise SAVE THE KOALA MONTH in September each year to make people more aware of the koala’s problems and to raise money to help with our work in saving koalas.
- We advise developers on how to build koala-friendly housing estates in areas where koalas are living.

How maps can help save koalas.

The Koala Habitat Atlas

More than eighty percent of koala habitat has already been destroyed since the beginning of European settlement in 1788. This makes it very important to find out where the best koala habitat is, and to save what is left.

The Koala Habitat Atlas has been developed by the Australian Koala Foundation to find out where koala habitat is located and to show town planners, and people who own koala habitats, where koalas live and which areas of bushland to protect for them.

Usually, an atlas is a book of maps, but the Koala Habitat Atlas maps are on a computer. With the Koala Habitat Atlas, we make maps which show the type of koala habitat area by area, just like a jigsaw puzzle. All the pieces of the jigsaw come together to give us a picture of the state of koala habitat remaining in Australia.

To stay healthy, koalas need healthy habitats.

The Koala Protection Act

Maps like this from the Koala Habitat Atlas can help save koalas.
Even Kids Can Help Koalas!

What Can YOU Do?

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aving the koala, or any animal or ecosystem begins with each individual person. Everyone, no matter how small, can do something to help. If each person did even one little thing, like encouraging their family to recycle or to save water or electricity, it would add up to a lot of help for the environment. And saving koalas begins with simple actions like these.

Here are some other ways you can help koalas:

If you live in a koala area:

- Support community koala groups in your area.
- Plant koala food trees. Don’t forget to find out which kinds of gum trees are the favourites of koalas in your area.
- When out driving, ask your parents and friends to be very careful not to hit wildlife crossing roads, especially at night. Remember, koalas are most active at night.
- Tie up your dogs and keep your cats inside at night, to protect all wildlife.
- If you have a swimming pool, place a sturdy rope into the pool attached to a tree or post at the edge, so that if koalas fall into your pool, they are able to climb out safely.

Ways for everyone to help:

- Learn more about koalas and their problems. If you do this you will be better equipped to know how to help, and you can teach your friends and family about it, too.
- Write to newspapers with your concerns. By doing this you are letting others know that koalas need help. Then THEY may want to help, too.
- Encourage friends & family to recycle, use public transport instead of cars, try not to use chemicals in your house and garden, use less water, and take reusable cloth bags when out shopping instead of accepting plastic bags.
- Write to politicians to tell them of your concerns about destruction of koala habitat. Politicians represent the people and have the final say about issues affecting koalas. Remember, governments, like children, are learning all the time. They must also be reminded about the koala’s needs and be persuaded that these needs are important.

“For saving the koala is a lot of fun!”

Clark (7) USA

SEPTEMBER IS "SAVE THE KOALA MONTH" EVERY YEAR.

For more information about koalas & how you can help, please contact:

AUSTRALIAN KOALA FOUNDATION
GPO BOX 2859
BRISBANE QLD 4001
PH: 07-3229 7233
FA: 07-3221 0337
E-MAIL: akf@savethekoala.com

...or check out the “Koalas for Kids” section of our website for more information, & cute koala pictures just for kids!

www.savethekoala.com

The Koala’s Survival is Everyone’s Responsibility!

Support the work of the Australian Koala Foundation:

- Become an Australian Koala Foundation supporter by donating, adopting a koala, or planting a tree. The money goes towards the AKF’s work to save the koala.
- Visit the Koala Shop on our website, for gorgeous koala items to buy.
- Support Save the Koala Month in September each year. Buy one of our promotional items from the outlets advertised around that time, or sell them in your school, Scout or Guide group. However, koalas need help all year round, and if you would like to sell these items, please contact us at any time of the year.
- Join the Koala Army to support us in enacting a Koala Protection Act in parliament.

Project Hints

- Write a letter outlining your concerns about destruction of koala habitat. Have your classmates sign it and send a copy to a politician and a newspaper.
- Think of some more ways children can help save the environment.

The AUSTRALIAN KOALA FOUNDATION relies on your support to help save koalas.