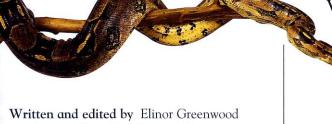




LONDON, NEW YORK, MUNICH, MELBOURNE, DELHI



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First published in Great Britain in 2001 by Dorling Kindersley Limited 80 Strand, London WC2R 0RL

8 10 9

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A CIP catalogue record for this book is available from the British Library.

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Paperback edition ISBN-13 978-1-4053-0470-2

Hardback edition ISBN-13 978-0-7513-3229-2

Colour reproduction by Colourscan, Singapore Printed and bound in Italy by L.E.G.O.

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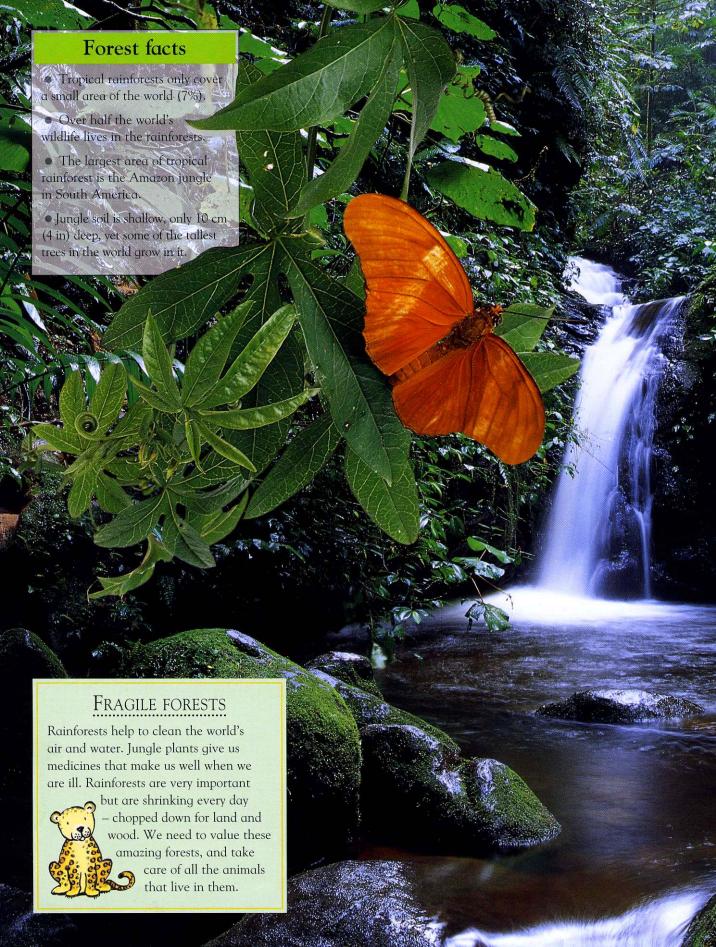
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### Welcome to the jungle

Monkeys call loudly from giant trees, huge spiders scuttle across your feet, and insects as big as dinner plates buzz around your ears. You're in the jungle!



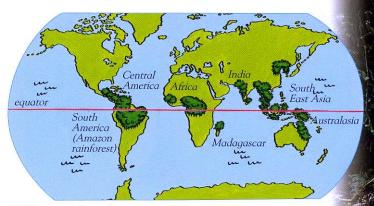
### Weather forecast

It's easy to guess the daily weather forecast in the jungle – hot and humid with heavy rain. Some areas of tropical rainforests get a massive 4 m (160 in) of rain each year and the temperature is always between 75 and 80 °F (24-27 °C).

### Animal magic

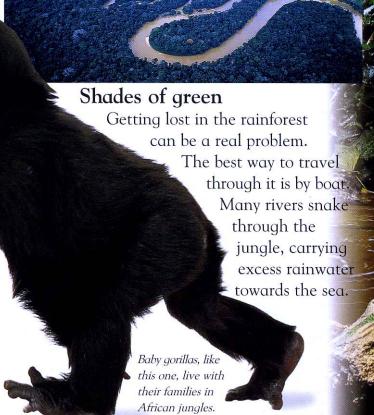
There is an incredible amount of different animals living in tropical rainforests.

They are mostly very shy, however, and are experts at doing disappearing acts among the leaves.



### Where in the world...

Tropical rainforests are found either side of the equator – an imaginary line that circles the globe like a belt. The weather near the equator provides perfect conditions for lush forests to grow.



# Forest layers

They may visit their neighbours, or eat out now and then, Each animal has its own special place in the rainforest.

but they always return home. From the tips of trees to the forest floor, each layer of the forest has a name.

Follow this guide to climbing a jungle tree, starting from the bottom.

# Emergent layer

It is much more windy above the canopy. The huge crown of the tree spreads out above you, forming the "emergent" layer. Here tribes of agile monkeys swing through the trees. You're as high as a church steeple so don't look down!

# The canopy

"canopy" – is made up of the thick branches and leaves of taller trees. A refreshing breeze and dappled sunlight make this the most popular place to live in the jungle – more wildlife lives.

here than anywhere else.

The crown of an emergent tree can spread to be the size of two football pitches.



## Forest facts

- ullet The canopy is like a leaky roof it stops most rain from reaching the forest below.
- No-one knows much about the jungle because they are so high up. treetops. They are hard to study



The understorey

hot here, like on the forest floor. Tiny frogs called the "understorey". It is dark and of small trees make up the first layer,

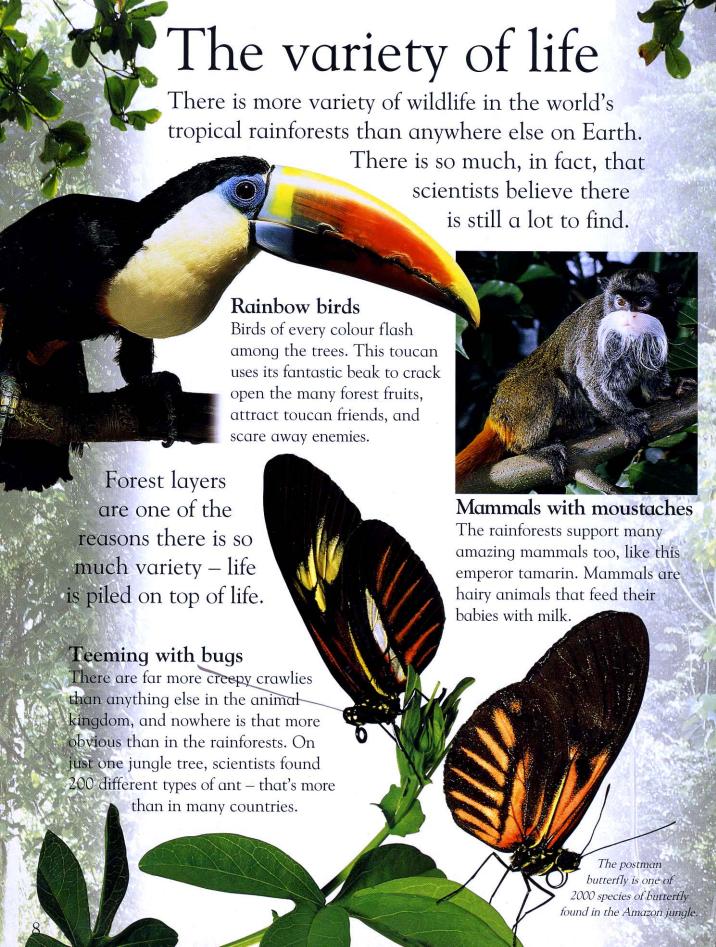
birds hover in front of flowers. hide in the leaves, and sparkly



The climb starts at the leafy forest floor. A soft carpet of dead leaves is perfect insect-munching creatures live here. for insects. Anteaters and other



rainforest without crossing one of the and deadly piranha fish as you cross! through it. Watch out for crocodiles many streams and rivers that slice It is impossible to travel far in the





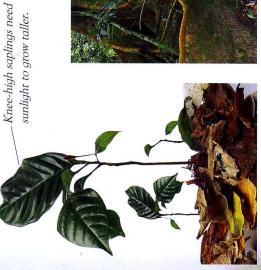
# Giant trees

The giants of the jungle, the emergent trees, stick their huge heads out above the canopy. These trees, that start life as tiny saplings on the forest floor, are often hundreds of years old.

Spreading out

Once a young tree has grown past the canopy, it can spread out its branches and enjoy the sunshine. No other giant trees can grow nearby because there is not enough room.

Some of the 60-m (200-ft) high giant trees are up to 1,400 years old.



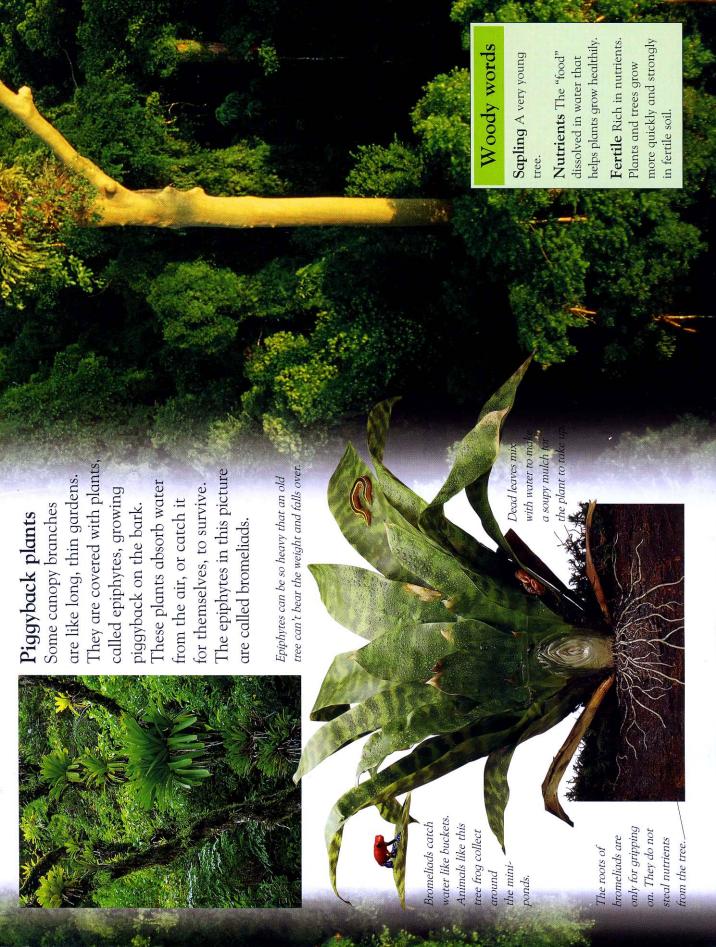
### Starting out

When an old tree crashes to the ground, it makes a clearing. Saplings now have the sunlight they need to grow. They race towards the light, competing to take the dead tree's place.



## Wriggly roots

Huge roots, known as buttress roots, wriggle across the forest floor. They make a steady base for the giant trees. These roots also draw up water and nutrients from the top, most fertile, layer of soil.



### Jeepers creepers

Creeper streamers hang between trees and bright red flowers dot the greenery like party decorations. From orchids to rafflesia, rainforests are home to over half the world's plant life.



### Lobster claws

On a walk through the Amazon jungle, you are likely to see one of the 450 species of heliconia, also known as lobster claws. These striking flowers love the tropical heat and damp conditions of jungle life.



Delicate and exotic orchids perch high on the branches of tall trees. These epiphytes (see page 11) need to be able to absorb water very quickly in order to survive.

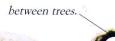
Can you spot the orchid mantis in the flower? It is lying in wait to catch visiting insects.

### A stinking giant

A 1-m (3-ft) wide rafflesia bloom – the biggest flower in the world – opens in the dead of night and lasts for only one week. It stinks of rotting meat, earning it the nickname

"corpse flower".

Thick woody creepers called lianas stretch between trees.





Insects have a fatal attraction to the sweet nectar in pitcher plants. When they land on the rim, they lose their footing, fall inside, and drown in the fluid at the bottom. The plant then absorbs nutrients from their dead bodies.

Rafflesia have no leaves or greenery. They are parasites, draining all the nourishment and support they need from a host vine.











### Flying high

There are many living in the emergent 🔤 layer, from majestic

different types of birds

eagles and vultures, to noisy gangs of colourful parrots.

Rainbow colours

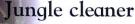
A very fast bird, this rainbow lorikeet will fly a long way to find food. They usually travel in chattering flocks of 15-20 birds, but sometimes flocks join up and hundreds fly together.

Parakeets, along with lorikeets and macaws, are a type of parrot.

Screeching parakeets

It's hard to see this parakeet when it's feeding on fruit or flowers amongst the leaves. You can't miss it calling to its friends, though.

Philippine eagles grow to 1 m (3 ft) tall, and 8 kg (17 lb) in weight - they're definitely not as light as a feather!



King vultures help keep the jungle clean by eating dead animals. They find rotting bodies by following other vultures or using their strong sense of smell.

> King vultures have bald heads for delving into carcasses.

One fifth of all the birds in the world live in tropical rainforests.



Monkey eater

This rare Philippine eagle is one of the world's biggest eagles. It has broad, rounded wings to help it swoop among the branches of trees and pick off unlucky monkeys.



### Tree-houses



It's bedtime in the forest. Whether it's a daytime nap or a full night's sleep,

every animal needs a safe and comfortable place to rest. Many bed down in the trees.

### Palaces for ants

The interconnecting chambers of ant plants make ideal living rooms for countless ants. They use the chambers like a palace, with rooms for nurseries, larders, supplies – and even a special bedroom for the queen.



Spider silk is sticky, so the bird can attach her nest to a leaf. She adds a few twigs to the bottom so that it doesn't blow away.





The plant benefits, too, by gaining nutrients from the debris collected and stored by the ants.

### Sweet dreams

Tree frogs, tasty snacks for many predators, like to rest inside snug bromeliads. The thick leaves protect and hide them.

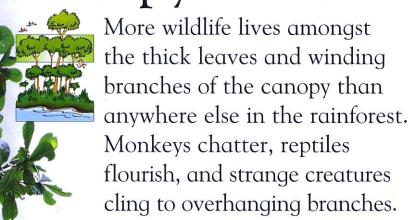
Tree frogs also save on water loss by sleeping through the hotter daylight hours.



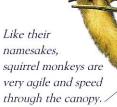




Canopy creatures



A green iquana looks fierce but it is really very timid.



### Cheeky monkeys

These fun-loving common squirrel monkeys like to live in big groups of 30 or more friends and family. They eat fruit, birds' eggs, and wouldn't say "no" to a nice, juicy spider, either.

## Even though it can be as long as a man, it will run away at the smallest fright. Iguanas are good climbers, with powerful toes and sharp claws for holding onto branches.

Gentle giant

Iguanas store fat under their jaws and in their necks.

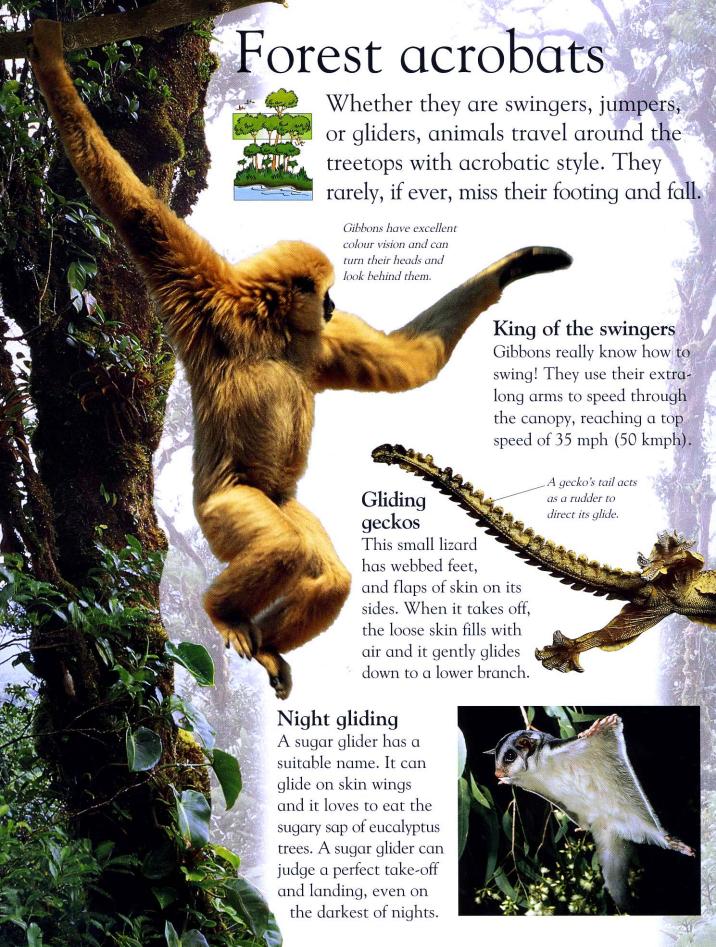
### One long muscle

A green tree python has a nasty way of killing its prey. It uses its muscular body to squeeze it to death. By day, it drapes itself elegantly on a branch. By night, it hunts for sleeping monkeys and birds.

These bulges are strong mouth muscles for holding onto prey.

### Forest facts

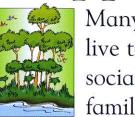
- Canopy leaves can be 4 m (13 ft) long – like huge, green umbrellas.
- Epiphytes (see page 11) growing on a canopy branch can weigh as much as the branch.
- Canopy plants flower at different times. Some plants flower six times a year, others only once in 40 years.







### Happy families



Many rainforest animals live together in organised social groups, like our families. This is how they

care for each other in the wild.

### Tadpole backpack

A poison arrow frog the size of a penny piece carries her tiny tadpoles to a bromeliad pond. She deposits her load in the water and then visits the tadpoles daily until they turn into frogs.



### Hitching a ride

The treetops can be dangerous for playful youngsters so many parents carry their young on their backs. In silky anteater families, it is dad that does the carrying.

Shield bugs are very unusual. Most other insects lay their eggs and then leave them.

### A good mother

After a female shield bug's eggs hatch, she stands guard over her bug babies. They huddle beneath her, somehow knowing that it is dangerous to venture out alone.

Jungle giants

Elephants lumber through the jungles of Africa in family groups of up to 20. Baby elephants never stray far from their mums.



### The understorey



The understorey is lit with a greenish glow, and the air is still, hot, and humid. Lazy big cats slump on branches,

brightly-coloured birds whirr around flowers, and extraordinary lizards search for insect lunches.

### Colourful chameleons

Not only do these unusual lizards have colourful markings, but they can also change colour. Chameleons darken to merge into their background and hide, or flash a different colour to scare away enemies.



Chameleons can look in every direction by rolling their eyes.

Tree frogs need lots of water, just like pond frogs. During the day, when it is hotter, they hide in damp, leafy hollows to save water. By night, they catch insects with long, quick-action tongues.

A cool frog

### Snakessss

Small creatures, like lizards and frogs, share the understorey with some dangerous neighbours. Snakes, such as this golden tree boa, lie in wait for passing prey.

A hummingbird's wings beat up to 80 times per second.

> The beating of their wings sounds like someone humming a tune.

### Flying jewels

Hummingbirds are tiny – the smallest kind is the size of a bumblebee. They hover next to flowers, feeding on a sweet liquid inside called nectar. They lick the nectar up with long tongues that reach to the end of their spiky beaks.

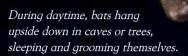


The sticky pads on this white-lipped tree frog's toes help it grip onto wet leaves and stems.

### Going batty

Love them or hate them, bats are common in the rainforest. Bats wake up at night, when the birds go home to roost, and take over

their eating grounds.



They don't mind crowds, although sometimes squabbles can break out.

### Give me a pat!

This doggy-looking but eats fruit.
Also like a dog, it has an excellent sense of smell for sniffing out the juiciest fruits. It spits out seeds or passes them out in its droppings. This helps the spread of fruit trees.

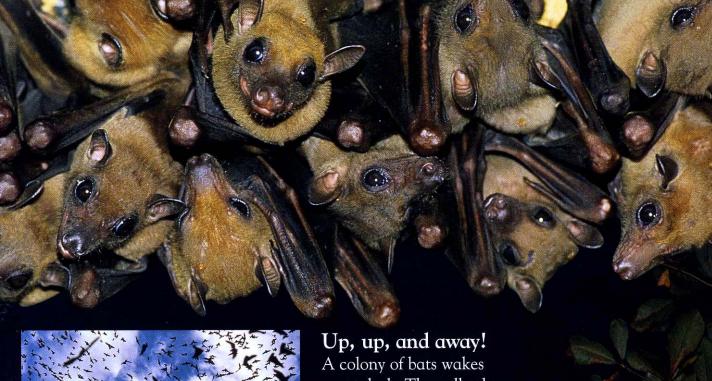
Bats' wings are made of a sheet of thin skin stretched between very long fingers. only mammals that can fly.

Bats are the

### Bats and flowers

This long-nosed bat loves sweet nectar, which it licks up with a long tongue from inside flowers. Its wings are hairless and as thin as paper. It wraps them around its furry body when it goes to sleep, like a blanket.





At a hidden signal, each bat takes off at the same time.

A colony of bats wakes up at dusk. They all take off together with a great flapping of noiseless wings and set off to find food.

### BATTY SIZES

The biggest bat in the world is the Malaysian flying fox. It can have a wingspan as wide as a car – 1.5 m (5 ft). The smallest bat is the bumblebee bat. It is only 3 cm (1 in) long and weighs 2 g (0.05 oz) – about the size of your big toe.

### Vampire bats

the wound.

This nasty little critter creeps up on sleeping animals and sinks in its fangs. The animal can't feel the bite because the bat has special spit that numbs pain.

The bat then laps up blood from

They drink an egg-cupful of blood each night.



### Camouflage

In the jungle, you could be surrounded by animals and not know it. Suddenly, a leaf scurries away or a tree-trunk changes shape, and you realise you're being watched...



### Thorn bugs A bird would

A bird would think twice before gobbling up one of these thorny insects – that's if it knew they were insects in the first place!

### Hiding in the shadows

An unsuspecting wild pig could be standing right next to this jaguar and not notice it. The spotty markings on its coat look like the sun shining on shady leaves.

### Freeze!

An iguana freezes on a tree-trunk, and, as if by magic, almost totally disappears. Its superb camouflage blends its shape into the tree-trunk. It is only when the iguana moves off that it can be seen again.



### Asian leaf frog

A forest floor frog does an amazing impression of a dead leaf. Its pointed snout and hooded eyes add to the leafy effect.

The frog keeps very still and waits for prey to pass.







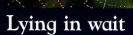


## Hunting



In the rainforest, venturing out to find food is a dangerous job – it's nothing like a trip to the supermarket! You have to be careful *and* lucky. There are traps and ambushes laid everywhere.

The mantis is weighed down by its fat bottom-half, so it will not over-balance.



There are millions of spiders in the jungle, some as big as your hand. This orb weaver spider waits for insects to fly into its sticky web.

Its front feet have spikes to help it hold onto prey.



A praying mantis has launched itself towards a passing fly and caught it with its front legs. The fly had no idea it was so close to danger – the praying mantis is a master of camouflage.

Poised

Poised to strike, eyes alert.

#### "S" for speed

This poisonous whitelipped tree viper holds the top of its long, slithery body in an S-shape so it can strike out quickly.





### Riverbanks



Jungle riverbanks are alive with wildlife. Gentle plant eaters browse the thick vegetation, graceful

birds show off their fishing skills, and giant snakes lie in wait for passing crocodiles...



#### Walking on water

This basilisk lizard can escape enemies in a surprising way. Its back feet have long toes with flaps of skin between them so it can skid across the surface of water.

#### Bird ballet

These elegant great white egrets patiently stalk the river, snapping up frogs and insects as well as fish. At dusk they return to their nests in the trees to roost.



#### Giant guinea pigs

Close relations of guinea pigs, capybaras are good swimmers thanks to their partially-webbed feet. This makes them clumsy and slow on land, however, like ducks. They live in groups of 10 to 100.

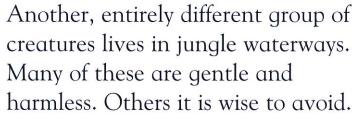


#### Crocodile for dinner, please!

Anacondas – the biggest snakes in the world – can be twice as long as street lamps. One of the few predators of adult crocodiles, an anaconda will squeeze a croc to death, then eat it whole.

A crocodile meal will satisfy this big snake for about a month.

## Watery world



#### Floating gardens

In some places, jungle rivers are slow-moving, shallow, and swampy. These areas are

a paradise for plants. Water hyacinths (right) grow quickly, forming tangled rafts on the surface.



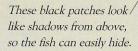
Crocodile teeth can only grip and rip. Crocs can't chew or munch. They spin in the water to tear off bite-sized chunks.

#### Shooting fish

Archerfish are very skilled at spitting – they are capable of scoring a direct hit 1.5 m (5 ft) above the surface.

The spurt of water knocks an insect into the water where the archerfish gobbles it up.

Trailing, feathery roots absorb nutrients from the water.



#### River trivia

- Archerfish have finely adapted eyes and can see better through murky swamp water than clear water.
- Crocodiles eat about once a week.
- Not all piranhas are dangerous only four out of 18 species will attack a human.



#### Amazon manatee

This slow-moving mammal browses water plants along the mighty Amazon River. It is a sociable creature and usually lives in a small group.

Manatees are often called by their nickname "sea cows".



#### Small but deadly

A school of red piranha fish can tear a large animal to pieces in minutes. They can get into such a feeding frenzy that they take bites out of each other!



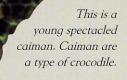
#### World record holders

Red piranhas hold the world record for being the most ferocious fish. In 1981, it was reported that piranhas attacked and ate more than 300 people when an overloaded boat sank at Obidos, Brazil. This kind of attack is not common, however!

Each piranha can only take a small amount of flesh in one bite. They are only successful feeders in large groups.

#### Jaws

Although this black piranha fish is strictly vegetarian, it is armed with rows of razorsharp teeth. Indians in the Amazon jungle use piranha jaws as scissors.





## Night life



For many jungle creatures, the Sun going down is an alarm clock to get up. Animals that wake up at night are called "nocturnal" and have special features for survival in the dark.

The jungle is never completely dark. Tiny lights flicker on and off in a beautiful natural light show as fireflies meet up in bushes.



which help it to see in the dark. These small cats are hard to find in the rainforest. They are excellent climbers and speed around the branches.

Jaguarundis hunt small birds, mice, and lizards that live in the trees.

# Toad in the hole For these toads, life is safer underground or in the dark. They spend the day in a forest floor burrow and come out at night to eat insects.



#### Fly fishing

Fishing bats don't need to see well as they have amazing hearing. They can "hear" the size and shape of fish in the river just by sensing the ripples on the surface. They hook fish out with their claws, then kill the prey with their teeth.





## Exploring the jungle

The jungle gives up its secrets slowly. After 200 years of study, we still have a lot to discover. We may yet find a cure for cancer, from a plant without a name, in a distant forest.



Amazonian Indians invented hammocks.

Huge chemists Some ingredients

in medicines come

from jungle plants.

the rainforests, the more likely it is

we will find plants

the world's most

serious diseases.

that can cure

The more we explore

In harmony

Jungle people have lived in the rainforest for thousands of years. They know many of its secrets, and can teach us their unique skills and knowledge of the wildlife.

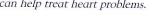


This yam can help people with arthritis.

skin diseases.

Moreton bay chestnut seeds brought hope to people with HIV.

The seeds in this ouabain pod can help treat heart problems. Rosy periwinkle plants can help treat cancer.



#### Protecting animals

Some rainforest animals are "endangered", which means there are not very many left in the world. These animals need extra help to survive.

> Orang-utans are endangered. As a result, orang-utan sanctuaries have been set up in jungle areas where they can live undisturbed.



When early European explorers came back from their trips into the Amazon rainforest, they said they had seen men with one leg who could

run like the wind, bat people who lived in holes, and beings that were half man, half fish. People outside the forest didn't know what to believe!





Glossary Here are the meanings of some words it is useful

to know when learning about the rainforests.

**Insect** an animal with three parts to its body and six legs, such as a fly or ant.

**Liana** a creeping plant.

Mammal an animal that has hair and feeds its young with milk.

Nectar the sweet liquid inside flowers.

Nocturnal active at night.

Nutrients "food" that plants and animals need to grow and live healthily.

Omnivore a plant and meat eater.

**Predator** an animal that hunts other animals for food.

Prehensile tail a tail that can grasp (like a hand).

**Prev** an animal hunted for food.

Reptile an animal that has scales and lays eggs.

Rodent a mammal that has long front teeth, like guinea pigs.

**Roost** to rest or sleep, often in a tree.

**Sapling** a young tree.

**Tropics** the hot area that runs around the world in a band, either side of the equator.

**Understorey** the layer below the canopy, made up of smaller trees and bushes.

Wingspan the distance from wing-tip to wing-tip. Animal alphabet

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Ants (in ant plant) 18 South East Asia

Archer fish 40 South East Asia, Australia

Army ants 35 Central and South America

Asian leaf frog 31 South East Asia

Basalisk lizard 39 Central and South America

Blue morpho butterfly 14 Central and South America

Capybara 38, 39 South America

Chameleon 27 Madagascar

Chimpanzee 23 Africa

Colobus monkey (Black and white) 15

Colugo 14, 19 South East Asia

Common marmoset 14 Central and South America Crocodile

(Spectacled caiman) 7, 9, 41 Central and South America

Elephant (African) 25 Africa (Asian elephants live in Indian jungles)

Emperor tamarin 8, 9 South America

False leaf katydid 30 Central and South America

Fishing bat 42, 43 Central and South America

Fruit bat 28

Gecko (flying) 22-23 South East Asia

Giant armadillo 32 South America

Gibbon (Siamang) 22 South East Asia

Golden tree boa 27 Central and South America

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Great white egret 39

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Hermit hummingbird 18 Central and South America

Hummingbird (Violet-eared) 27 Central and South America



Every animal found in this book is listed here, along with its page number and which area of tropical rainforest it comes from.

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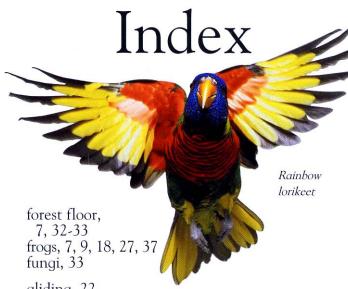
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#### Useful websites

Animals of the Rainforest Jungle animals with bite-sized information and great colour pictures. www.animalsoftherainforest.com

Toucan Sam's Encyclopedia of the Rainforest *Everything* you need to know, with Toucan Sam as your guide. www.toucansam.kelloggs.ca/eng/enter.htm

Zoom Rainforests *It's all here. Colour-in animal printouts.* www.EnchantedLearning.com/subjects/rainforest

Rainforest Action Network Lot of info (and good jungle sound effects), as well as ways to help preserve the rainforests. www.ran.org/kids\_action/index1.html

Virtual Rainforest Find out what's hiding behind the leaves. www.msu.edu/~urquhar5/tour/active.html

#### Acknowledgements

Dorling Kindersley would like to thank: Hilary Bird for preparing the index; Emily Bolam for original artwork; additional picture researchers, Bridget Tily and Sean Hunter; and Simon Holland for editorial assistance.

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