

# Contents

About reptiles	4
Reptile timeline	6
Reptile life cycle	8
Lizards	10
Snakes	34
Turtles and tortoises	54
Crocodiles and alligators	68
Habitats and environments	82
Glossary	96

## About reptiles

### What are reptiles?

Reptiles are cold-blooded vertebrates that have scales or a shell. They are found on almost every continent on Earth; they thrive in all climates and all places except for inhospitable Antarctica.

Being cold-blooded means that reptiles cannot regulate their own body temperature, unlike humans. Instead they need to get light and heat from the sun. That's why you will often see reptiles basking in the sun.

Vertebrates are creatures that have a spinal column or back bone. As well as reptiles, these include humans, other mammals, birds, amphibians and fish. Today, there are over 10,000 different species of reptiles known to us.



While mammals and some reptiles give birth to live young, many reptiles lay eggs (this is another similarity between birds and reptiles). Laying eggs keeps the mother and her babies safe, giving the mother the ability to hide her eggs, and making sure she is not weighed down by her young.

#### Evolution

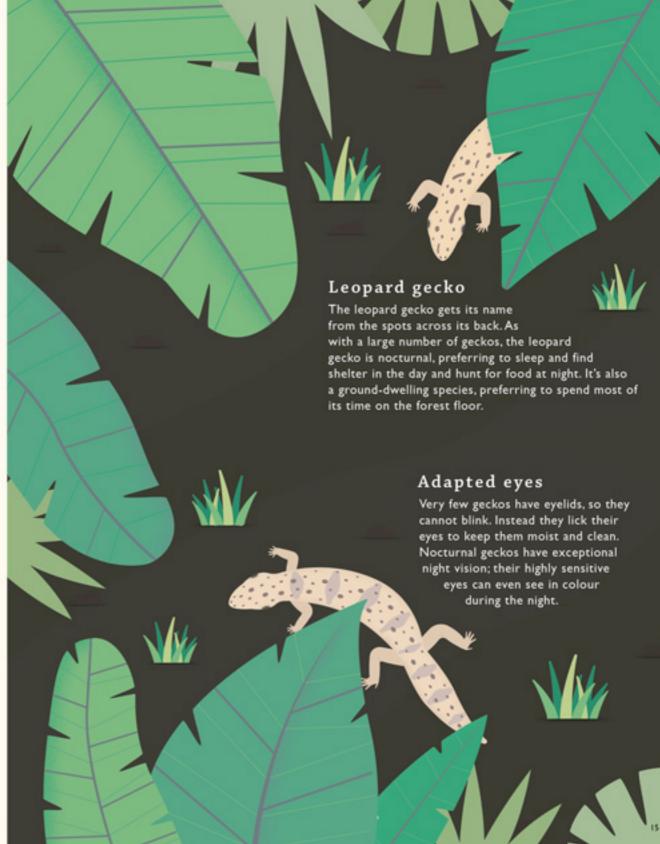
The earliest known reptiles are dated to 312 million years ago. Over the next 80 million years, these early reptiles evolved into large vertebrates – the dinosaurs.

Modern reptiles have evolved into four orders – testudines (turtles), sphenodontia (an endangered order comprising solely of New Zealand's tuatara), squamata (lizards and snakes) and crocodilia (crocodiles and alligators). Interestingly, it has been established that crocodilia are very strongly related to birds!

#### Habitats

Reptiles have evolved to live in some of the harshest regions on our planet. As you will find out, they live in some amazing and unexpected places and have adapted unique and fascinating abilities for survival.





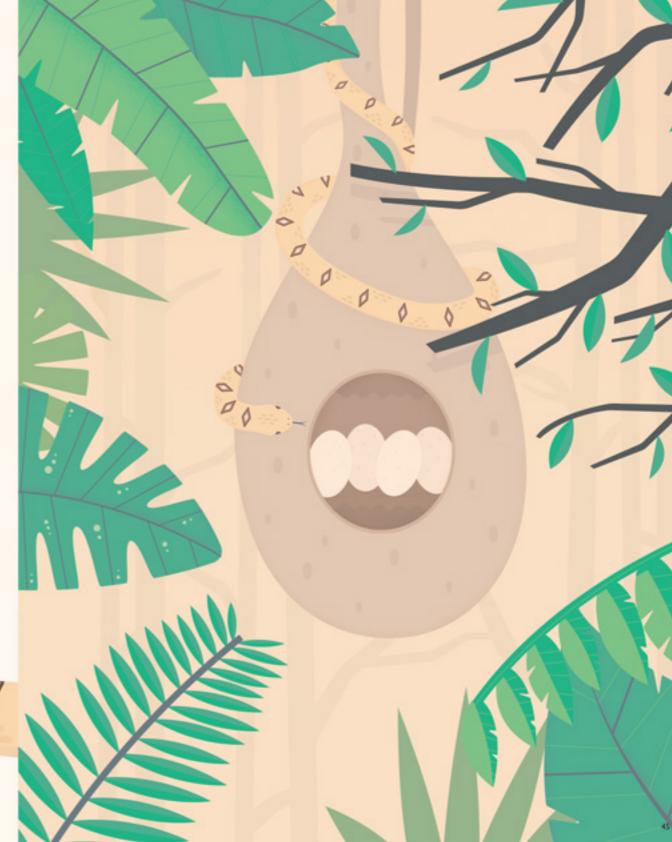
# Egg-eating snake



Although there are several species of snakes that eat bird eggs, the egg-eating snake is unique because it will eat nothing else. Egg-eating snakes will consume a range of birds' eggs, but their favourites are those of the weaverbirds. Weaverbirds make elaborate hanging nests for their eggs. These nests are left undefended when the weaverbird ventures off to find food or extra building materials. The egg-eating snake will take advantage of this, swooping in to swallow the eggs.

Every part of this snake's body has adapted to this hard-to-swallow diet. Like other snakes, the egg-eating snake has an incredibly flexible jaw that can stretch around an egg even larger than its own head. The egg is swallowed whole, cracking only when it reaches a series of ridges along the spine. Once the contents of the egg have been digested, the snake will then regurgitate the leftover broken shell.





## Leatherback turtle

The leatherback turtle is the largest of all turtles. It gets its name from the soft rubbery shell that sweeps across its back. Most turtles have a stiff, bony shell, but the leatherback's shell is much more flexible.

#### Far and wide

Leatherback turtles have the ability to swim great distances. Ridges on its shell help the turtle to conserve energy on its huge migrations, which can sometimes be over 4000 miles.

## Feeding time

Leatherbacks feed almost exclusively on jellyfish. As jellyfish are typically very low in nutrients, during feeding season a leatherback turtle needs to eat huge amounts every day in order to sustain itself. Plastic bags that end up in the sea can easily look like a jellyfish, and leatherbacks have often been found to have died due to plastic consumption. To avoid this, we should all ensure that we recycle plastic bags rather than throwing them away.

## Friendly followers

Remora fish (or sucker fish) can often be seen swimming alongside leatherback turtles. The fish and the turtle have a relationship that helps both of them. The remora fish help the turtle by eating any dead skin, algae or parasites that have become attached to the turtle, and in exchange they get a free meal!