





BIRD FAMILY TREE

How many types of bird are there?

There are nearly 10,000 species of bird and they belong to all sorts of families. Their family group depends on how they look and how they survive in their environment.

Birds of prey ...

- ... include hawks, eagles, vultures and falcons
- ... have great eyesight
- ... have sharp talons for
 - catching small prey

Owls ...

... usvally hunt at night ... have excellent hearing

Perching birds ...

... include sparrows, robins,

thrushes, swallows, crows,

finches, magpies and white wagtails

.. have feet that can grip a perch

tightly so they can sleep on a branch without falling off

Water birds ...

... include ducks, geese, swans, herons, avocets and flamingos

... are good at flying

... nest on the ground

... have webbed feet

Woodland and forest birds ...

... include woodpeckers, toucans, parrots, hummingbirds, peacocks and pigeons

... live in forests

... depend on trees for food, shelter and nesting places



Seabirds ...

... include puffins, albatrosses, pelicans and cormorants ... have waterproof feathers and webbed feet

... are good at swimming, flying and as



Flightless birds ...

... include ostriches, emus, penguins, takahē and kiwis

... have given up flying because they are too heavy, or don't need to fly to survive



FEATHERS AND FLYING

Why does a bird have feathers?

A bird is the only animal with feathers. Feathers keep birds warm and waterproof. They are light and a special shape, which helps most birds to fly. Feathers are made from the same material as our hair and nails, called keratin.

Colour code

Birds see in colour and recognise their own species from the colours and patterns on their feathers.

Glam yet practical

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A bird's feathers give it shape, colour and pattern. Lots of male birds use their feathers to show off, too. The male Raggiana bird-of-paradise has extra-spectacular feathers that are very long and flowing!

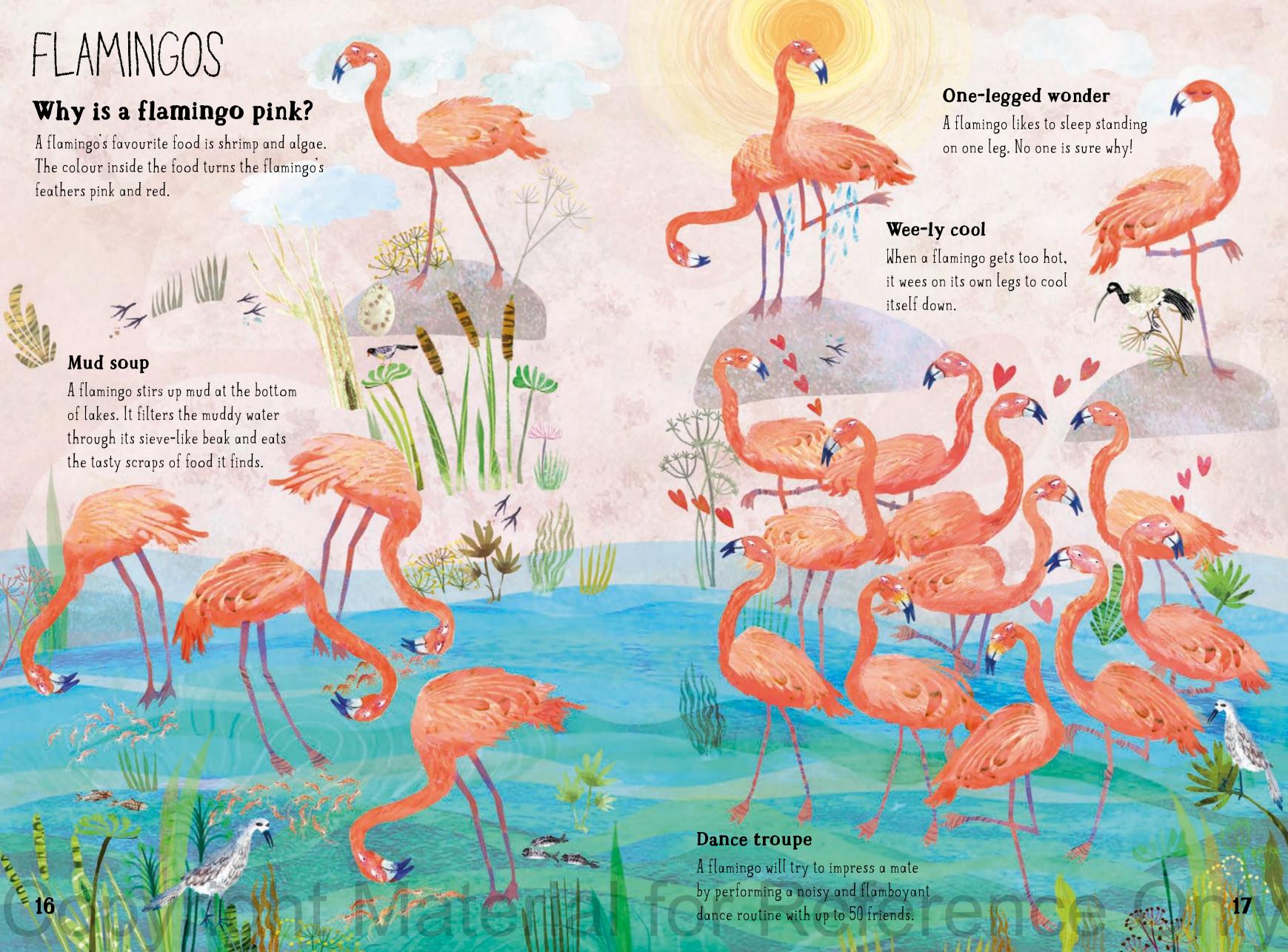


Many water birds, including ducks, produce a special oily liquid that they rub over their feathers to keep them waterproof.



















BALD EAGLES

Is a bald eagle really bald?

No! The word 'bald' used to mean 'white headed' and not 'hairless. So a bald eagle isn't thin on top, but white on top!

Eagle-eyed

A bald eagle can see four times better than a person with perfect vision.

A real high-flier A bald engles large ad powerful wings belp it fly to 3.000 metres above the ground #10 times ith heigh of The hard in london

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A talon-ted hunter

For dinner, a bald eagle will use its sharp talons to snatch a fish from a river or a squirrel from the forest floor.

All-American eagle

The bald eagle is only found in North America. It is the national bird of the USA.







ALBATROSSES

Why is an albatross so big?

From tip to tip a wandering albatross's wings are 3.5 metres across! Their big wings help them to glide without flapping so that they can save energy on a long trip. ight Material for Reference Only

Cruise control

When it is travelling a long way, an albatross locks its wings in position using a special tendon that holds them out at full stretch.

88 feathers but a chick's got none

fluffy, down feathers with their flying feathers. take up to 40 weeks to replace their warm, An albatross has 88 flight feathers, which is more than any other bird. Some chicks

Water, water everywhere

An albatross can drink salty sea water! It gets rid of the salt through a small hole above its eye.



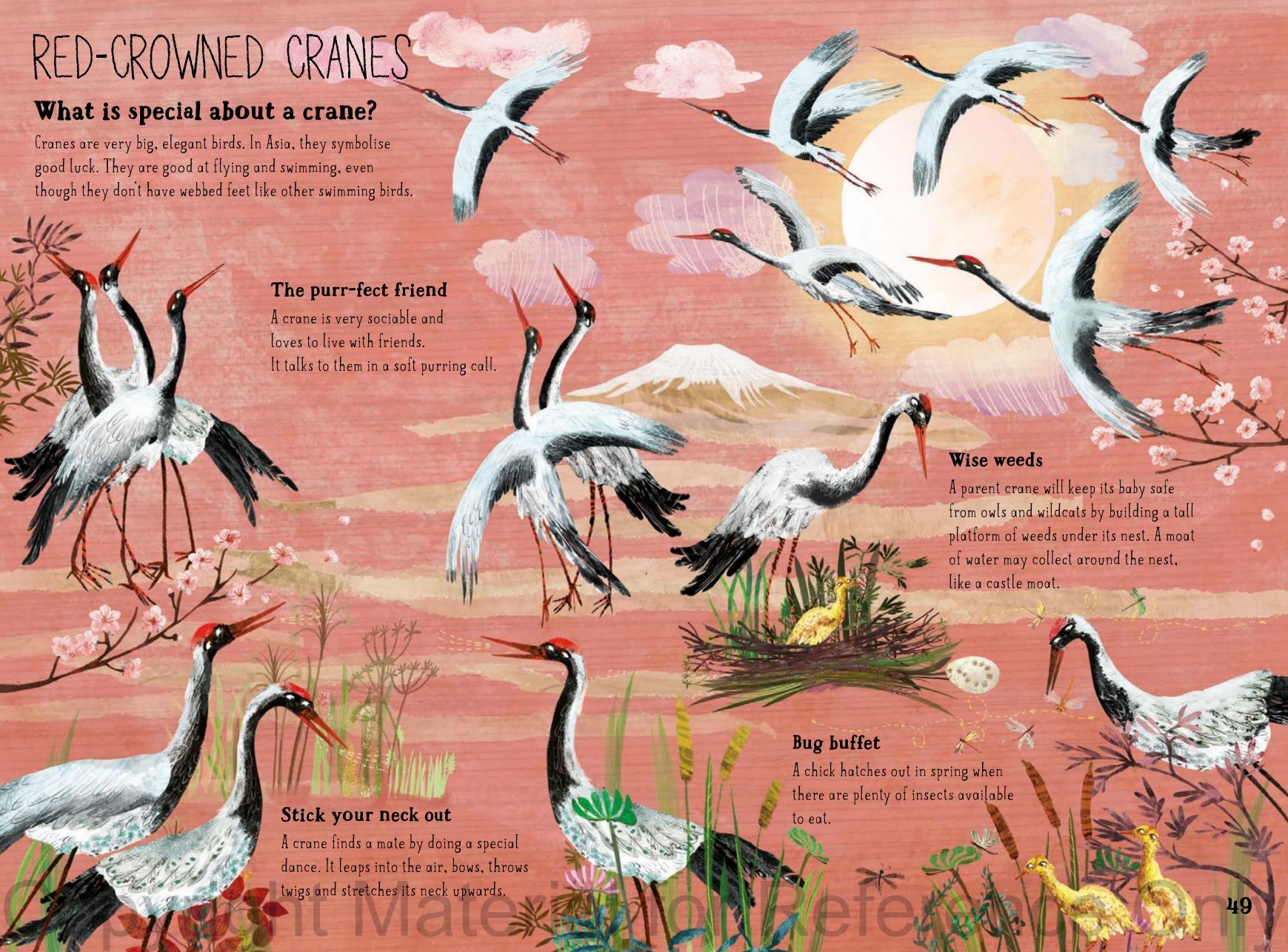








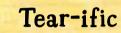






Why does a bird have a beak instead of lips?

Beaks are lighter than teeth which makes it easier for birds to fly. Birds' eggs hatch faster because the baby birds inside the eggs don't need lots of time to grow teeth. Different birds have different-shaped beaks and they all have special uses.



A hawk has a hooked beak.

This helps it to tear its prey into bite-sized pieces.

Straight to the point

A bee-eater has a long, thin beak for picking up delicate things to eat. It carefully holds a bee in its beak and taps it against a tree to get rid of the sting before dinner.

What a big mouth

A nightjar's beak is big so that it can scoop up flies as it glides through the air.

Toothy texture

A heron has a sharp beak, like a dagger, which it uses to stab slippery fish.

Cracking design

A hawfinch has a cone-shaped beak.

It is strong and good at cracking seeds and nuts, which are its favourite food.



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DID YOU FIND ...

... the 15 hiding places of the special egg from the beginning of the book?



8-9 I'm a bird spotter!



14-15 Great grey owls

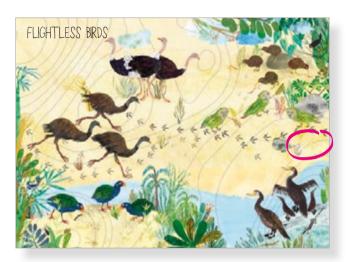


16-17 Flamingos

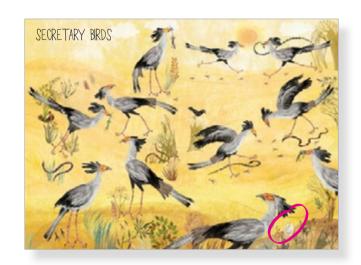
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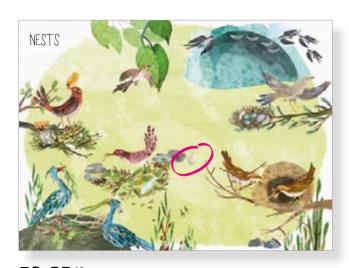
20-21 Kingfishers



22-23 Flightless birds



24-25 Secretary birds



32-33 Nests



40-41 Peacocks



42-43 Robins



44-45 Swans



46-47 Hoopoes



48-49 Red-crowned cranes



52-53 Bird calls and songs



54-55 City birds



56-57 Give garden birds a home

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