



Wall to Wall Productions are looking for teams of 3 children (aged 10-12) to take part in a space travel action adventure gameshow.

Set in the world of astronaut training, the teams will participate in a series of thrilling physical and mental challenges.

One team will triumph and win a remarkable space prize package.

# Application Deadline SUNDAY 29<sup>TH</sup> MARCH 2020

For more information go to spaceadventurecasting.com

PARENTS MUST APPLY ON BEHALF OF THEIR CHILDREN

Must be 10-12 years of age as of 15th July 2020 and legal residents of the country from which they are applying.

Other eligibility requirements apply.

#### NATIONAL GEOGRAPHIC

#### Hello!

This month, Nat Geo Kids takes a trip to the tropical rainforests of Costa Rica, where we catch a glimpse of some of the cutest, craziest



and most colourful creatures in the world! Plus, we investigate the journeys taken by jaguars and learn how their vital travel 'corridors' are being protected.

Also this issue, we find out about one of the world's greatest scientists, Stephen Hawking, and hear from his writer daughter about growing up with a famous dad.

There are all the usual posters, puzzles and prizes to enjoy, too - so get stuck in! See you next month,

The NG KiDS team

#### 4 WILD POSTERS!



#### Write to NG KiDS

Email editorial@ngkids.com.au Post NG KiDS, PO Box 161, Hornsby NSW 2077 Australia

Website natgeokids.com/au

Facebook facebook.com/natgeokidsausnz Instagram instagram.com/natgeokids\_ausnz











For competition terms and conditions visit natgeokids.com/ts-and-cs/

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wild cat is being protected!



HISTORY'S GREATEST HITS The life of super scientist Stephen Hawking!

CHINA FACTS Thirty top titbits about the world's most populous country!



- 4 Inside Scoop All the latest news and events from across the globe...
- What's UP? This month's best movies, books and TV shows!
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- 48 Make It! Yummy coconut and
- orange macaroons! 49 Puzzle Answers Oi, no cheating!
- 50 Wacky World! There are some crazy things going on out there!

The latest news from around the globe...



A population of rare fluorescent pink slugs have survived the fires that raged through their home on a remote mountaintop in New South Wales.

Rangers counted at least 60 Mount Kaputar pink slugs in Mount Kaputar National Park after rainfall stopped the blaze. It's thought they managed to stay alive by retreating into rock crevices. Experts hope their food sources - fungi, moss and mould - will grow back quickly, and slug numbers should recover within five years. Sadly the same can't be said for many other Australian species.





Record-breaking astronaut Christina Koch returned to Earth last month, following the longest single spaceflight by a woman in history! Christina, from the USA, was in orbit on the International Space Station for 328 days, and conducted six spacewalks during her mission,

including the first three all-woman spacewalks. As well as contributing to hundreds of experiments on board – such as growing greens in the ISS laboratory - Christina will now be studied by NASA researchers so they can find out the effects of long-duration spaceflight on a woman – handy for future missions to Mars. Welcome back, Christina!

# J FAST FACTS!

#### Earth Hour

On 28 March, join millions of people across the planet and switch off your lights for one hour!

**Earth Hour** encourages people to think about the impact we have on our **planet**. The energy we use, food we eat and transport we take all impact the environment, affecting wildlife and **people** alike.

Over **12,000** famous monuments around the world, including the **Sydney** Opera House, the Eiffel **Tower** in Paris, France, and **Buckingham** Palace in London, UK, will be plunged into darkness to show their support!

To take part and celebrate our amazing planet, switch off your lights for **60 minutes** at 8:30pm on Saturday 28 March! To find out more and to make a promise to protect the planet, head to earthhour.org.au



### One-of-a-kind piano smashed!

You know how upset you feel when something you love gets broken - like a treasured toy or a phone? Well spare a thought for Canadian pianist Angela Hewitt, whose beloved piano – worth AUD\$291,000 - was accidentally smashed by movers! The virtuoso said the F278 Fazioli was her "best friend" and that she was "heartbroken" by the break.

The unique instrument was fitted with four pedals rather than the usual three, and maker Paulo Fazioli has said he'd never make another one because it was such a pain in the bum to do! "I hope my piano will be happy in **piano** 

heaven," said Angela.



# Chid steals penguin from zoo!

Seven-year-old April De Ceiver is in **big trouble** after **smuggling** a baby **gentoo penguin** out of Twitford Zoo during a school trip!

The naughty girl slipped the bird into her backpack during feeding time, and travelled all the way home without any of her teachers or classmates noticing. Her parents realised something fishy was going on after she hurried upstairs, ran a bath and demanded they leave a plate of tuna outside the locked door.

The penguin is now safely back at the zoo and security measures are under review. Keepers have declined to press charges, but April is **not allowed pocket** money for a whole year!



APRIL

#### Nakizumo crying baby festival

Each April in **Tokyo**, **Japan**, parents hand over their babies to sumo wrestlers for a seriously bonkers battle. Two super-sized athletes take to the stage and dangle the sprogs in front of each other to see which one cries first! If the tiny tots don't tear up right away, the sumos help the waterworks begin by pulling silly faces or making loud noises. The first baby to bawl is crowned the winner! If both start weeping at the same time, the one who cries the **loudest** is the champ.

According to tradition, a baby with a long, loud cry is said to be a healthy child who'll have a long life. All that wailing is thought to scare off evil spirits, too. Waaaa-ow!



What's going on this month?



**Manatee Appreciation Day** 

Celebrate the 'cows of the sea'!



#### **April Fool's Day**

Can you spot the fake story in this issue?!



#### **International Beaver Day**

Find out about these rad rodents!



#### **Australian Heritage Festival**

This year's theme is 'Our Heritage for the Future'!



**Easter Sunday** 

Yum! Let the egg hunts begin!







Enter ALL comps at natgeokids.com













#### Mr. Bean

Childish wally Mr. Bean is back on TV for more cartoon antics with his trusted **Teddy**. Unfortunately for Mr. Bean, his adventures always seem to land him in some sort of turmoil. Fortunately for us, they're also always hilarious to watch!

In these new episodes, Mr. Bean moves in with Mrs. Wicket when he suffers a flea infestation. Will this unlikely duo be able to live harmoniously? We doubt it!

Mr. Bean also enters his cat Scrapper into a **beauty contest** so that he can win a trip to Paris, France. A-meow-sing stuff! Weekdays at 7:30pm from 16 March on Boomerang



#### Monster Beach

Brand-new series Monster Beach launches on Cartoon Network this April, following the frightfully funny adventures of surf-siblings Jan and Dean who are on an endless summer vacation.

The daring duo have a terror-ific time hanging out on the island of Iki-Iki with a bunch of thrill-seeking monster mates, where they unravel mysteries, stop bad guys and cruise around in hopped-up hot rods. Fun!

● Weekends at 6:30pm from 11 April on Cartoon Network

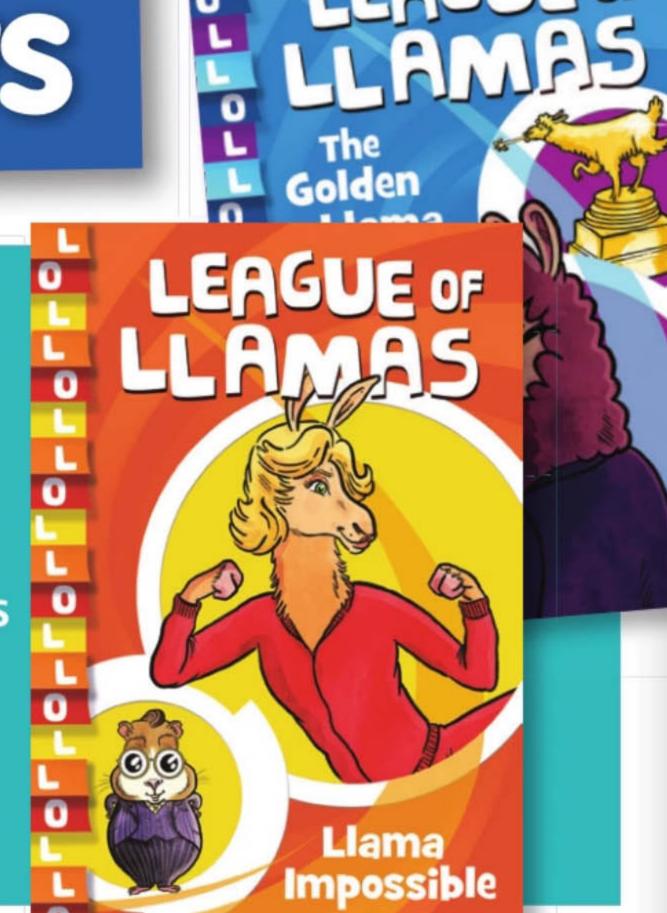


# Book Reviews

#### League of Llamas series Aleesah Darlison

Get ready for plenty of LOLz with the LOL (aka League of Llamas). This group of Ilama secret agents are on a mission to save the world – if only Agent 0011 Phillipe Llamar could stop looking in the mirror at his luxurious fringe, and Agent 0013 Lloyd Llamanator could resist the temptation to eat everything in his path!

Can the dozy duo foil the evil plans of **General Bottomburp** and his **badger** henchmen?





#### **Azaria: A True History Maree Coote**

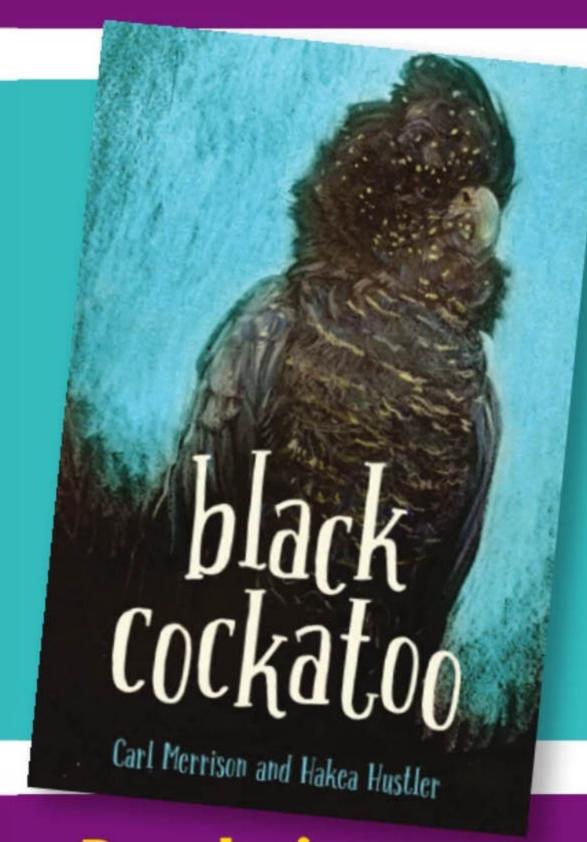
In 1980, a tiny baby named Azaria Chamberlain was snatched by a wild dingo on a trip to Uluru, never to be seen again. But no-one in Australia believed that a dingo would do such a thing, and eventually Azaria's grieving parents were accused of murder.

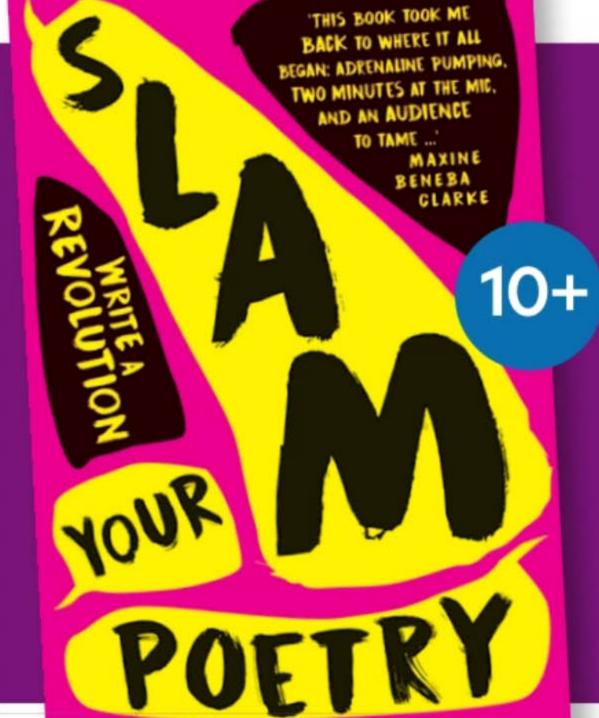
This beautifully illustrated picture book about the tragedy will make you think about justice, the media, wilderness, and the perils of mob thinking.

#### **Carl Merrison and Hakea Hustler**

Mia, a young Aboriginal girl from a remote community in Western Australia, feels lost and confused about the traditions of her family and her place in the present day. But after rescuing a black cockatoo that's been injured by her troubled older brother, she begins to discover her inner strength.

This short, heartfelt book is a brilliant introduction to Aboriginal culture and customs.





#### Slam Your Poetry: Write a Revolution Miles Merrill, Narcisa Nozica

**Poetry Slams** are a big deal in Australia – an audience 10+ of two million watch the Australian Poetry Slam every year. Whoa! And, now, thanks to this brilliant guide – part manifesto, part masterclass – anyone who's ever been interested in writing poems can join the spoken-word revolution! So what are you waiting for? Save your thoughts from extinction and learn to get slamming!

When writing poems, describe experiences using your senses, layering your story with sights, sounds, smells, taste and touch.

**Five** winners will grab all of these books! Head to natgeokids.com and answer this question...

What name did Uluru also used to be known by? a) Ayers Rock b) Rosetta Stone c) Red Rock

**Enter by** 23 April!

NAT GEO KiDS' image of the month

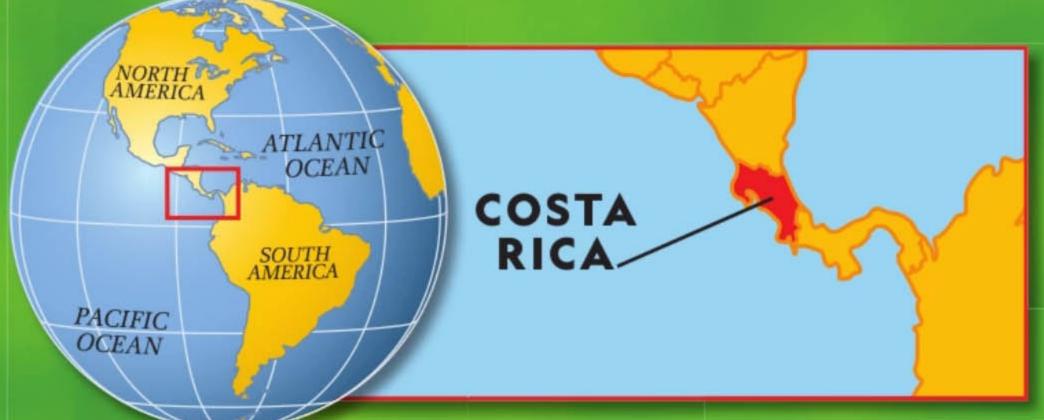




# Melconne to

Join Nat Geo Kids on a trek through the tropical rainforests of Costa Rica - you won't believe how much wildlife there is!

Hola! This tiny Central American country may only be three quarters of the size of Tasmania, but it contains nearly half a million animal and plant species - that's almost 6.5% of the world's biodiversity. Whoa! Check out some of the weird and wonderful wildlife that lives here...



GREEN IGUANA

We've only just finished our traditional Costa Rican breakfast – Gallo Pinto (rice and beans!) - when we spot this mighty male iguana sitting in a tree by the side of the road, casually munching flowers. The camouflaged reptiles have an amazing way of escaping predators. If they feel threatened, they'll make a deathdefying leap from the treetops into rivers, before swimming to safety. Splash!

#### WHITE NOSED COATI

Have you ever seen anything like this adorable animal?! Part of the raccoon family, coatis' long snouts allow them to forage for insects, lizards, fruit and even snakes on the forest floor. Their tails, which are almost the same length as their bodies, make them excellent climbers, too, and help them balance.

#### BLUE MORPHO BUTTERFLY

With a **wingspan** of up to 20cm (almost as wide as a copy of **NG KiDS**!), this big beauty is one of the largest butterfly species in the world. Its bright **blue** colour comes from microscopic scales on its wings reflecting blue light.



'Eyespots' on the **underside** of the **blue** morpho's wings trick potential **predators** into thinking it's a large creature. Clever!



### LESSER VIOLETEAR HUMAINGBIRD

The smallest birds in the world, hummingbirds' wings beat almost 60 times per second, allowing them to hover in the air as they sip nectar from flowers with their long tongues. Hummingbirds can also fly backwards and upside down, helping them visit around 1,000 flowers per day!

There are over **50 species**of hummingbird in Costa Rica!

Turn the page to go sloth sightseeing!

# SDOTTING NG KiDS goes on a sloth safari! With their clever camouflage and super-slow motion, sloths can be

difficult to spot in the wild. But sloth expert, Albert Vega Ruíz, gives us some good advice. "Look closely for a dark, round shape that has a different texture to the surrounding vegetation," he says. "Sloths often snooze in the joins of tree branches and can be mistaken for birds' nests at first glance." Keeping our eyes peeled on the foliage of a forest in the north-west of the country, it's not long before we spy one high up in the canopy. Here's what we learned about these cute creatures...

Sloths are arboreal, which means they're perfectly adapted for life in the treetops. They eat, sleep, mate and give birth up in the canopy. In fact, these mammals only come down to have a poo once a week, dumping up to a third of their bodyweight on each trip!

Sloths have an **extra bone** in their **neck** that allows them to turn their head almost 270 degrees - handy for watching out for predators such as snakes, birds of prey and jaguars!

. . . . . . . . . . . .

Three-toed sloths

have dark mask-like

markings around their eyes,

and their curved mouth gives

the impression that they're

always smiling. All sloths are

almost completely blind in

the bright sunshine.

Luckily they have a

brilliant sense

of smell!

The green tinge in sloths' fur is caused by the algae and fungi that grow there! The sloths don't mind though – it helps camouflage them in their lush, leafy habitat.

> Sloths' fur is also home to other species that feed on algae, such as **sloth moths** and **beetles**. A single sloth can host more than 100 moths and over 1,000 beetles!

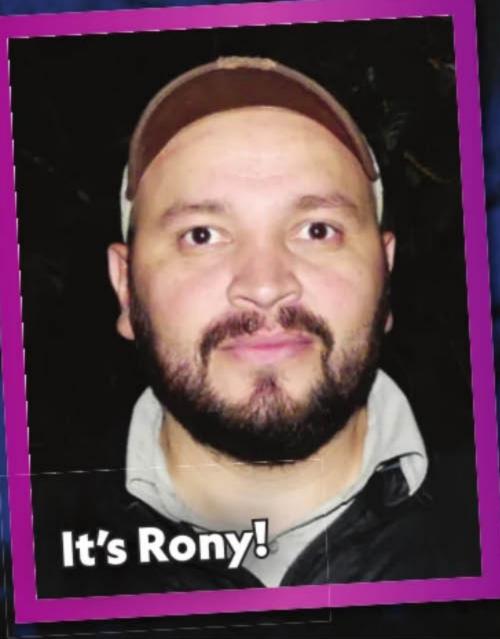
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# RICOTHED

#### We take a night walk through the Costa Rican cloud forest to meet the strange be

We'll be honest – we're a little bit nervous about venturing into the jungle in darkness! It's 5:30pm and the sun has already gone down in the El Establo Mountain Private Reserve, an eco-park set high in the mountains of



northwest Costa Rica.
It's much cooler here than in the tropical forests below, and we're wrapped up warm as we trudge up a rocky path to meet our guide, Rony Castro. He hands us a torch. "You'll be needing this!" he says...

#### ENTER THE GLOOM

Rony's not wrong – it's pitch black as we head into the misty jungle, the only light coming from tiny fireflies flickering above our heads. We can smell the damp scent of the undergrowth and hear the loud buzz of insects. Rony shines his torch high into the canopy, moving the beam of light quickly across the branches. He's watching out for the reflections of eyes in the darkness. Soon he spots a fuzzy bear-like creature scurry along a branch, its long tail stretched out for balance.

"You guys are so lucky!" he says, breathlessly. "That's an endangered **Harris's** 

olingo – one of the most difficult animals to spot in Costa Rica!" Related to **raccoons**, these shy creatures can release a stinky smell from their bottom that frightens off predators. Pooey!

tarantula – it's as big as a hand! Sensing our presence, the hairy creature springs out of it's home, expecting to catch a meal (right). It's venomous and can deliver a painful bite, so we stand well back!

# MOSS-TERS OF DISGUISE

Rony leads us towards a moss-covered tree trunk, shining his light over the fuzzy green surface. Suddenly he stops and beckons us closer, "Can you see it?!" he asks. We're looking right where he's pointing but there's nothing there. "Look again!" Sure enough, disguised perfectly among the moss is a mimic moss stick insect (below), a diddly little creature whose entire body *exactly* resembles the soft green plants it lives among. "They're almost completely **invisible** to the eye, unless you know what you're looking for," explains Rony. On the same tree, we see a **mimic** moss praying mantis, too – it'smaller than a pinky finger. These little creatures even move like moss, blowing in the breeze in a gentle bouncy manner. Amazing!

The tarantula springs into action!



#### SUPER SPIDER

"Now, who wants to see a tarantula?"
Rony asks, as the path narrows. "They don't spin webs, but live in burrows or inside tree hollows, springing out to attack unsuspecting prey!" He points his torch at a small hole by the side of the path, and inside, we see the eight hairy legs belonging to a huge orange-kneed

The mimic moss stick insect is a master of disguise



There are

about **300,000** 

species of insect

in Costa Rica!

asts who emerge after sunset!

### BE-LEAFIT!

Another cleverly camouflaged insect found here in Costa Rica is the leaf mimic katydid, which looks just like a **leaf** that's sprouted **legs** and a little head! "Katydids resemble leaves of all different colours and textures, from

fresh green ones to decaying, brown ones, like this guy," says Rony, as he points out one of the crazy katydids (below). "To make their mimicry even more convincing, some even appear to have 'holes' or frayed edges no two look the same." Whoa!

It's thought that **katydids** are named after the call some species make, which sounds like "Katy did!"

> Katydids' remarkable camouflage protects them from predators



As we return to the visitor's centre, Rony stops suddenly and reaches into one of the building's gutters, carefully picking up a baby Central American bark scorpion. Growing up to 8cm long, they can deliver a painful sting that causes swelling and tingling – but they're **not deadly**. Phew! He shines a special ultraviolet light on the creature – and it **glows** (left)! Scientists know that a molecule in their **exoskeleton** glows under UV light, but why exactly this happens is still a mystery – it's a suitably spooky ending to our exciting night safari!



- Cloud forests are FACTS

   type of rainformat a type of rainforest found in mountainous areas.
- They're almost constantly covered by a layer of cloud due to their high altitude.
- The cloud cover causes dark, damp conditions and cool temperatures, creating a unique ecosystem that's rich in wildlife.
- About 50% of the fauna (animals) and flora (plants) in Costa Rica are found in its cloud forests.

Nat Geo Kids travelled to Costa Rica courtesy of the Costa Rica Tourism Board. We toured the country with Travel Excellence, went sloth sightseeing with Ecoterra Expeditions and enjoyed a guided night walk in the **Monteverde Cloud Forest Reserve** at El Establo Mountain Hotel. Find out more at visitcostarica.com

Watch out for this titchy terror!





A young jaguar swims across a muddy river, his spotted coat barely visible above the water. The wild cat's eyes focus on a tasty

crocodile sunning itself on a nearby bank. Once he's close enough to the shore, the jaguar springs and kills the reptile with one bite. This big lunch will give the cat fuel for a journey he's about to begin - the search for a mate.

Because of **habitat loss**, the route this jaguar needs to take is a dangerous one, leading the cat away from the dense jungle and out into open land, closer to humans.

To help jaguars safely make this journey, scientists are creating a network of linked territories running through 18 countries and two continents. The goal is to stop jaguar numbers from declining by protecting the cats' massive range, which is nearly 10.5 million km<sup>2</sup>.



#### SHRINKING HABITAT

North and South America's biggest cat once prowled, climbed and swam through more than 18 million km<sup>2</sup> stretching from southwestern USA, through Mexico and Central America, and well into Argentina. But in the past century, the jaguar's territory has been cut down by almost half to make way for cattle ranches, farms and cities. Few jaguars are now seen in the USA, and the southern range barely extends into **Argentina**. The big cats are extinct in **El Salvador** and Uruguay, South America.

"Because of development by humans, populations of the cats have been cut off from each other," says John Polisar, a jaguar expert from the Wildlife Conservation Society. "The separation of these scattered pockets of jaguars means fewer mates will meet – and fewer cubs will be born each year."

#### BIG-CAT HIGHWAY

Jaguars are **solitary** creatures, with males often trekking up to 160km to find a mate. So it's not enough to simply protect the pockets of land that the cats settle in - called Jaguar Conservation Units. Scientists also need to safeguard the 'corridors' that connect them, stretches of land that make up a kind of jaguar superhighway. These corridors can be



as narrow as a line of trees along a fence or more than 40km wide!

Unfortunately, much of the big cats' rainforest habitat has been cleared, and with a lack of trees, shrubs and grass to hide in, jaguars are less likely to travel along these corridors. Those that do are putting themselves in danger.

So how exactly are scientists working to preserve the jaguar's mega-important highway – and the majestic big cat's entire range?

> Turn the page to find out more about jaguars...

#### MAKING CONNECTIONS

Wildlife groups, governments and, most importantly, local communities have joined forces to create an organisation called the Jaguar Corridor Initiative (JCI). About ten years ago, the JCI sent scientists to visit 14 countries inhabited by jaguars to pinpoint exactly where the big cats lived.

"We needed to identify which corridors the animals used **most**," says **Roberto Salom**, **Costa Rica**'s programme director for **Panthera**, an organisation that works to **protect wild cats**. "By focusing on the **most threatened** areas – such as **Nicaragua**, a country in **Central America** where forests were being cut down at a high rate – we figured out which countries to focus on first." And it worked! Soon many local communities had put **protections in place** along the various corridors.

A jaguar stalks prey in Brazil's Cuiabá River

#### HOME ON THE RANCH

The jaguar we're following slinks out of the dense **Amazon rainforest** not far from a **field of cattle**. In the **past**, the big cat might have **tried to eat** the **easy prey**, which would have made *it* a target for **ranchers** protecting their herd. But the jaguar moves on *without* attacking.

That's because ranchers from most of the jaguar's 18 range countries have agreed to help **keep the cats safe!**They now keep their cattle **fenced in at night** so they don't wander off and **tempt the cats** with an easy meal.

"If a jaguar can't see the livestock, it's not likely to hunt it," Roberto says. The ranchers have also placed **flashing lights close to livestock enclosures** to scare the cats into staying away from the property. Which is great news for the cats – and the cattle!

"Jaguars are part of the ranchers' culture out here," Roberto says.

"Ranchers want to work with us, and that has made a really big difference."

Jaguar
Conservation
Units:
Protected
areas of
land where
jaguars
can live
and safely
raise cubs.

Jaguar
Corridors:
Stretches of land that connect one Jaguar Conservation Unit to another.
Jaguars travel on these corridors to get to protected land.



Stalking jaguar © Jak Wonderly / National Geographic Image Collection; Jaguar profile © Nick Garbutt / NPL / Minden Pictures; Cubs and mum © Kris Wiktor / Shutterstock; In tree © Getty Images UK; Map © Martin Walz.







Tired of taking the stairs? Why not take the **slide** instead?! That's what visitors to the **U.S. Bank Tower** in **Los** 

At **280m high**, the **Skyslide** is the highest slide on the outside of a building, with its enclosed glass tube sending thrill-seekers from the 70th floor to the 69th. Just don't look down!

Angeles, California, USA, can do.





#### SOMANY

#### HORNS



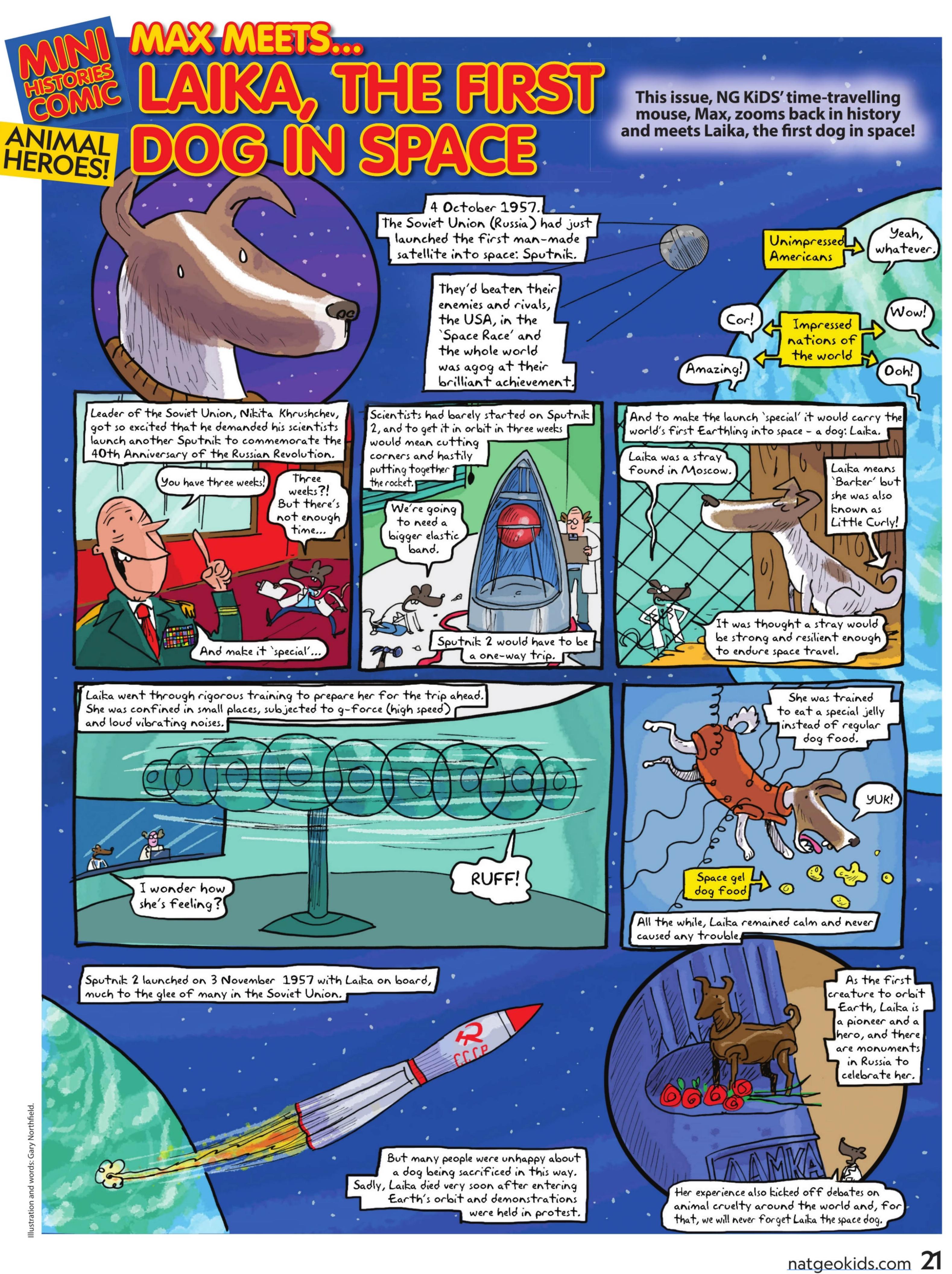
Jacob

the most horns on an animal. Most of these sheep have four horns, but some have **up** to six! At least one pair typically

grows vertically, often reaching more than 60cm in length. So you might want to stay on this sheep's good side!

holds the record for

> This sheep has four horns - two on top of its head, plus one on each side!





ın China, every year is represented by one of 12 animals. year of the rat.



ELEVATOR China's **Bailong Elevator** carries visitors more than <mark>300 m</mark> up a cliff's edge.

In ancient China, soldiers sometimes wore armour made from paper.

6 In 2010, a 2,400-year-old pot of soup was unearthed in Xian, China.

THINGS ABOUT

8 People race boats with dragon designs at a Chinese festival in the spring. Found in northern China, long-eared jerboas

used to bind the Great Wall's stones was made with sticky rice.

have ears that are

one-third longer

than their heads.

sometimes build nests in caves.

12) Half of all pigs on Earth live in China.

Temperatures in **China's Turpan** Depression can range from 49°C in summer to minus 29°C in winter.

Put together, all of China's railway lines could loop around Earth twice. Asiatic golden cats in South China sometimes communicate

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China's Grand
Buddha, a giant stone statue, has 5.5m-long eyebrows.

Chinese ice-cream trucks can only play music when parked.

Many Chinese emperors thought themselves to be descendants of dragons. 28 It took around 37 YEARS to make the TERRACOTTA ARMY, a set of more than 7,000 clay soldiers built to guard an emperor's tomb.

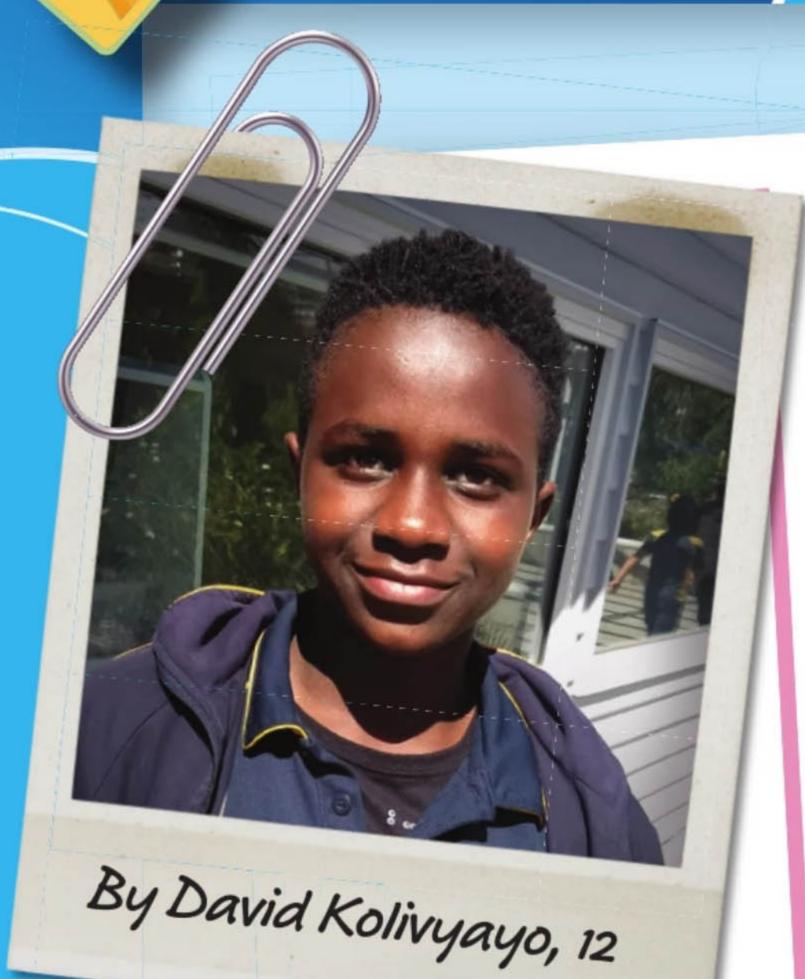


Chinese brides often wear red, a colour considered to be lucky.

The word 'ketchup' may come from a Chinese word for pickled fish sauce.

30 The city of Xinxiang in northeastern China has an iron statue of Mulan being welcomed home from war.

We've teamed up with Story Island Project for this creative writing page, featuring top tips and super stories from cool young authors!



#### WRITING

Not sure if your story is interesting? Well, try testing it out on others! Most authors ask for feedback from a trusted friend at some point. It's a great way of learning what works well and what needs improving in your story!

#### STORY IDEA

Try setting your story in one of the world's Seven **Wonders!** Do some research into the place and its fascinating history. Why is your character there?

#### SEND US YOUR STORY!

Email **200-250** words to editorial@ngkids.com.au along with a recent photo of yourself and a simple illustration in black **pen**. If your terrific tale is selected, we'll be in touch!

#### Wildwind

Splash! Blood spilled like rain. Wildwind's mother was killed. Wildwind watched from his hiding spot, his tears dropping on a leaf. Slowly, the tears spilled on the ground. Then, his dad was killed. Wildwind got so angry that he nearly revealed his hiding spot. One of the guards went to check where he heard the noises but when he reached where Wildwind was, he had changed his hiding spot, so nobody was there. When he left, Wildwind slowly climbed down from the tree he was hiding in. One of the guards had seen him climb down and now the guards were chasing him. Wildwind ran into the forest. The deeper he went, the more lost they all got.

Wildwind kept running until a hand came out of nowhere and pulled him behind a tree and held his mouth shut as the guards kept running deeper into the forest. Wildwind kept struggling and the half man, half creature let him go and said, "Hey, Wildwind!" As soon as Wildwind heard those words, he was shocked, for he recognised the voice.

"Nadi, is that you?"

"How do you know my name?" Nadi asked.

"I am your brother, Wildwind!"

"Sorry I didn't know I had a brother, I have been in this forest for too long!" Nadi said in shock.

"Why didn't you come back home?" said Wildwind.

"I got lost on my way back home. So what are you doing here? Did Mum tell you to come here?"

"No," Wildwind said sadly.

"What's wrong?" said Nadi. "Where's Mum? Is she OK?"

"Mum and Dad were killed by Enniga and Isdis. We have to avenge our parents' deaths..."

To be continued...







The Story Island Project is a Hobart-based not-for-profit organisation that nurtures the creativity and writing skills of young Tasmanians aged 7–17 and celebrates their diverse voices. Find out more at storyislandproject.org









# GRESIE

# STEPHEN HAWKING Learn the life story of this world-famous scientist!

#### 1942 - 1958

You might be surprised to know that one of the world's most brilliant minds, Stephen Hawking, was terrible at school! Born in Oxford, England, in 1942, Stephen often got in trouble during his childhood for **not** doing his schoolwork – he found it boring because **physics** and **maths** were just too easy for him. He was so brainy that his buddies even nicknamed him Einstein, after the renowned scientist!

1959 - 1962

Both of Stephen's parents had gone to Oxford University, and he followed in their footsteps. After graduating with a degree in physics, Stephen moved to Cambridge University to study cosmology, a type of **astronomy** that tries to answer really important questions like how the universe began, how it's changing and how it will end.



#### 1966 - 1985

Even though he was losing the use of his **muscles**, Stephen's mind stayed super-sharp and he came up with with many amazing theories that changed how scientists thought about **space**, **stars** and the Universe! Although teaching at some of the world's best schools, including the California Institute of Technology and Cambridge University, Stephen sensed that the **general public** wanted to learn about the **secrets** of the **universe**, too, and so he started writing a **book**.

#### 1962 - 1966

While at Cambridge, Stephen met and fell in love with fellow student

Jane. But he noticed he'd been getting clumsy, and so he decided to visit the doctor. And in 1963, when he was just 21, he was hit with some bad news – he had **Motor Neurone Disease**, a

condition that would slowly stop his muscles working until he wasn't able to move at all.

Despite his diagnosis, Stephen and Jane married and they went on to have **three** children. With Jane's support, Stephen gained his PhD.

Turn over to meet Stephen's daughter **Lucy**!



#### 1985 - 1988

In **1985**, Stephen completely lost the use of his voice, and so he learned to speak using a **special computer**. But he was determined to finish his book and he made sure that the **complex science** was written in **easy-to**understand language, and with lots of **humour**. When **A Brief History of Time** was published in 1988 it became an international bestseller.

WHEE! IT'S COOL BEING WEIGHTLESS!







flew on an anti-gravity aircraft named the Vomit Comet. Stephen died in 2018, and will be remembered not just for his remarkable understanding of stars and the Universe, but for helping everyday people understand them, too.

Bestselling science author and journalist Lucy Hawking tells us about life with her famous father...



Hi Lucy! Your dad, Professor Stephen Hawking, was a brilliant mathematician and physicist - did he ever help you with your homework when you were a kid?

Yes, he was very helpful and would explain a lot of things to me. My younger brother Tim has this funny story about when our father helped him with his maths homework. He got 96%, which is great, but he and my father spent ages poring over it. They were like, "How did we lose 4%? What did we do wrong?!"They couldn't work it out! What was it like growing up with a famous father?

Well, he wasn't really famous when I was a kid. His fame started after he published A Brief History of Time, which came out when I was already a young adult. But what was really interesting was growing up with a disabled father in the 1970s. He had an illness that took away his ability to move his muscles and took away his natural speaking voice (see below left). Back then, people with disabilities weren't really seen in public – at least not like my father was.

But he was always zooming around very fast in his electric wheelchair, sometimes with me and my older brother Robert running alongside. People couldn't get over it! They'd stop and stare, not

futuristic stuff!

because of his fame, but because of his disability and what he was doing. Sounds like he was doing some pretty

Yes, tremendously so! And my mother, too. Life was full of problems for people with disabilities back then. Things like dropped kerbs on pavements didn't exist in the UK, and so my mother and father fought to get a fairer deal for people with disabilities and their families. One of the things my

This is the first ever photo of a black hole - it's blurry because it's 54 million light years away!

father was most proud of was when he opened the **Paralympics** in **2012**. The hairs stood up on the back of my neck when he came out and started speaking. When your father lost his voice, he used a voice synthesizer to speak. What was that like?

Well, **Tim** had quite a **mischievous sense** of humour and used to tamper with the **speech machine** to swing things in his favour when he came to ask father for an ice-cream or whatever!

#### That's so cheeky! Did you ever mess about with his accents, too?

The early technology that enabled my father to speak only came with one voice, but later on, as synthetic voices developed and had different accents, I remember us having fun playing with different voices – one time we had my father talking as an

> elderly Irish woman! **Brilliant! Your dad appeared** three times on The Simpsons cartoon. What did he think of that? "NG KiDS

> > readers are

He really really loved it. But he said he was

• glad he didn't have to be **bright yellow** forever!

for that!" Your new book is called **Unlocking the Universe: Everything** You Need to Travel Through Space And Time. If YOU could travel through space and time, where would you go? Hmm... I'd quite like to go into the **future** to see how we'll tackle climate change. How will it all work out? And what role will **robots** play in our future lives?



#### If you could travel back in time, would you like to meet yourself as a child?

Gosh, no one's ever asked me that before! No, I don't think so. Funnily enough, though, I had a weird time-travel-ish experience when I watched the *Theory of Everything* film, the movie about my father's life. It was like seeing a family photo album come to life! It was so strange.

It must've been! Unlocking the Universe is a collection of 'essays' written for kids by scientists about things like black holes and exploring the universe. What's your favourite planet and why?

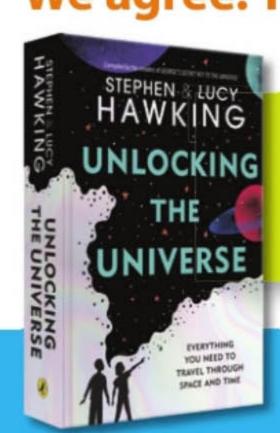
Earth! It provides us with everything we need. It's got a surface we can walk on, unlike Jupiter for example. It has an atmosphere the future. And we can breathe, unlike Mars. It's thank goodness in the Goldilocks Zone, meaning that Earth's temperatures are

> habitable, unlike Mercury or Mars. Earth is amazing. When we talk about other planets in our solar system we quickly realise how **hostile** they are to human life. Yes, we can plan to visit Mars, but we already have the perfect planet here. We just need to take better care of it!

Absolutely! There's a section on climate change in the book that was written by a 15-year-old girl. Why did you ask a teenager to write it?

I wanted a **young voice** in the book. Nitya Kapadia had started up a climate action group at her school in London and so I wanted her to write it as if she were writing to younger students at her school, telling them that there are lots of things young people can engage with. We want children to know that they can do something to help stop climate change and save the planet. Children are not powerless!

We agree! Thanks for chatting, Lucy.



**Unlocking The Universe** is out now.



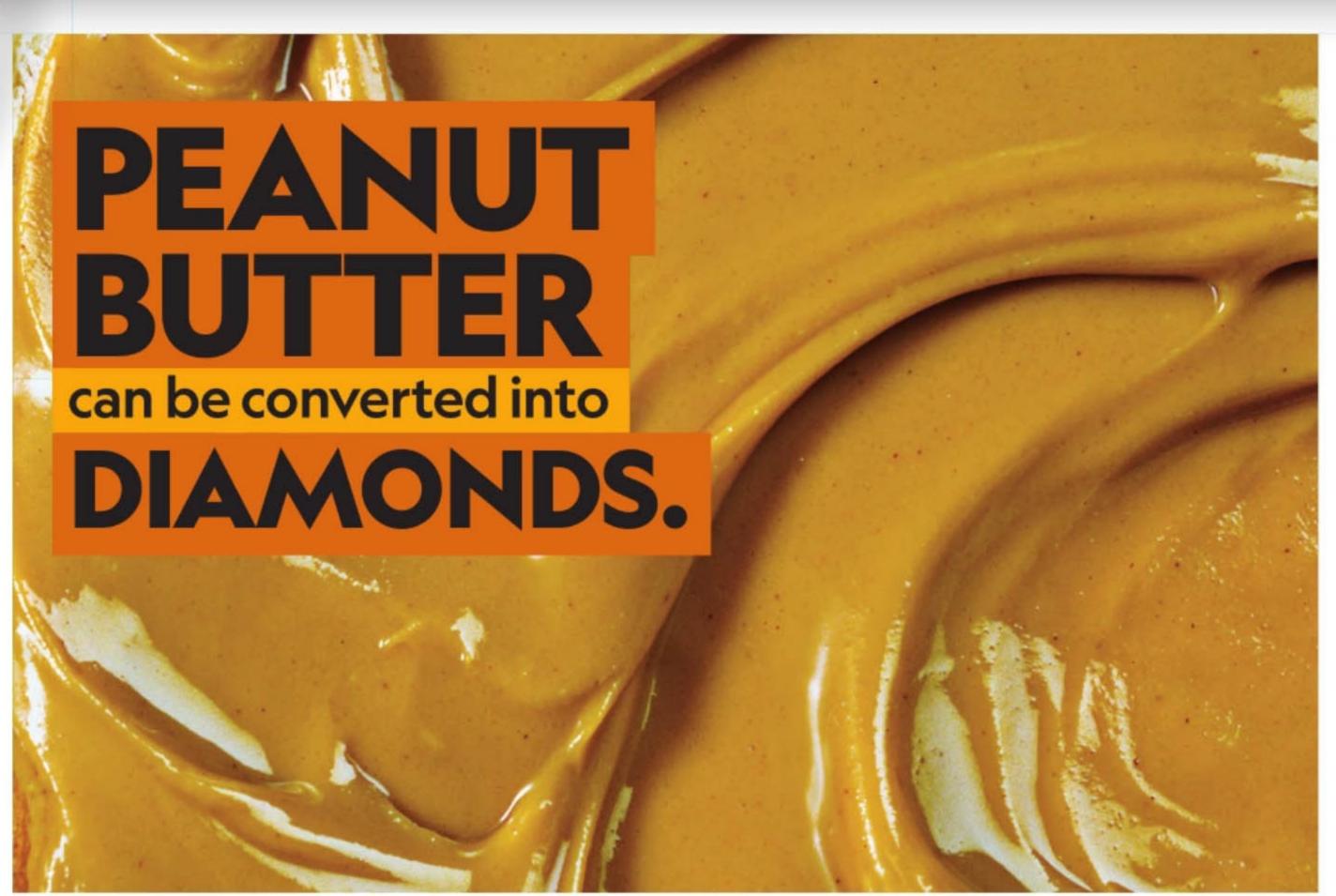
"Kids are feeling

eco-fear, and

so we want to

empower them!

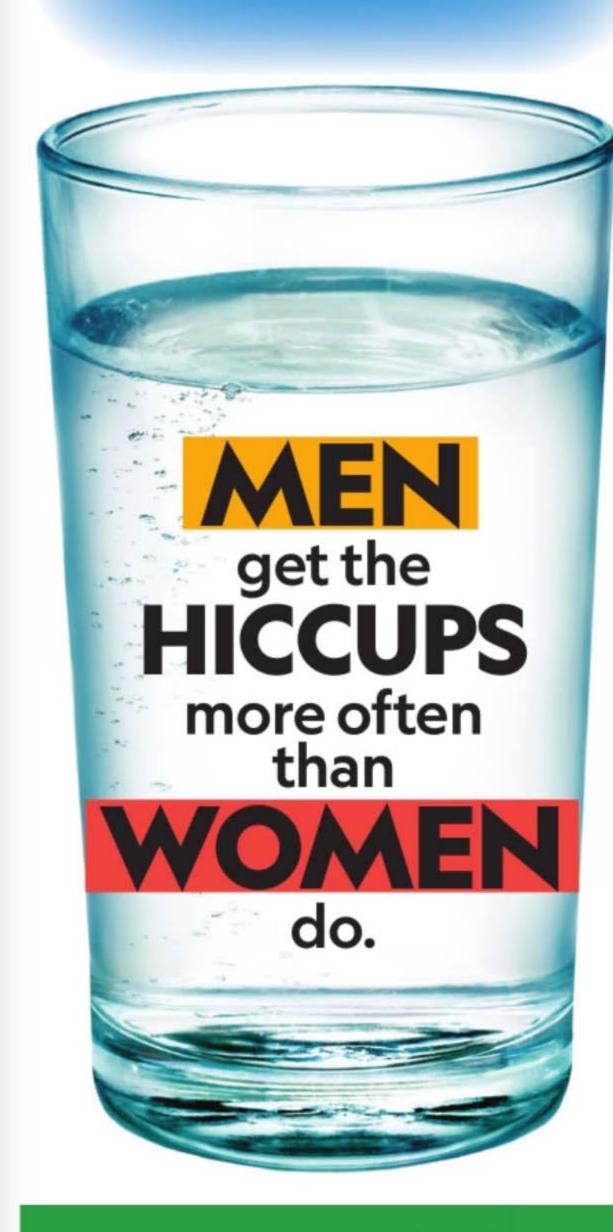




In the USA, between 1912 and 1918, people could take their money to Washington, D.C., to be

WASHED and IRONED.





Crocodiles have been around for about 200 MILLION









One of the world's MOST EXPENSIVE TREE HOUSES, located in the UK, cost almost \$6 MILLION to build.

Peanu Shutte

# THE GHOST OF HOWLERS BEACH

Are there really ghosts on Howlers Beach? It's up to Butter O'Bryan to find out!

The year is 1932. Butter O'Bryan lives in a Very Small Castle with his father and three aunts – Aunt Elephant, Aunt Cake and Aunt Peculiar. Those aren't their real names, of course, just as Butter's father isn't really called Pongo.

And even though Butter is only 12 years old, and the grandson of one of Australia's most successful Jam Kings, he is very aware of the hardship many people are experiencing.

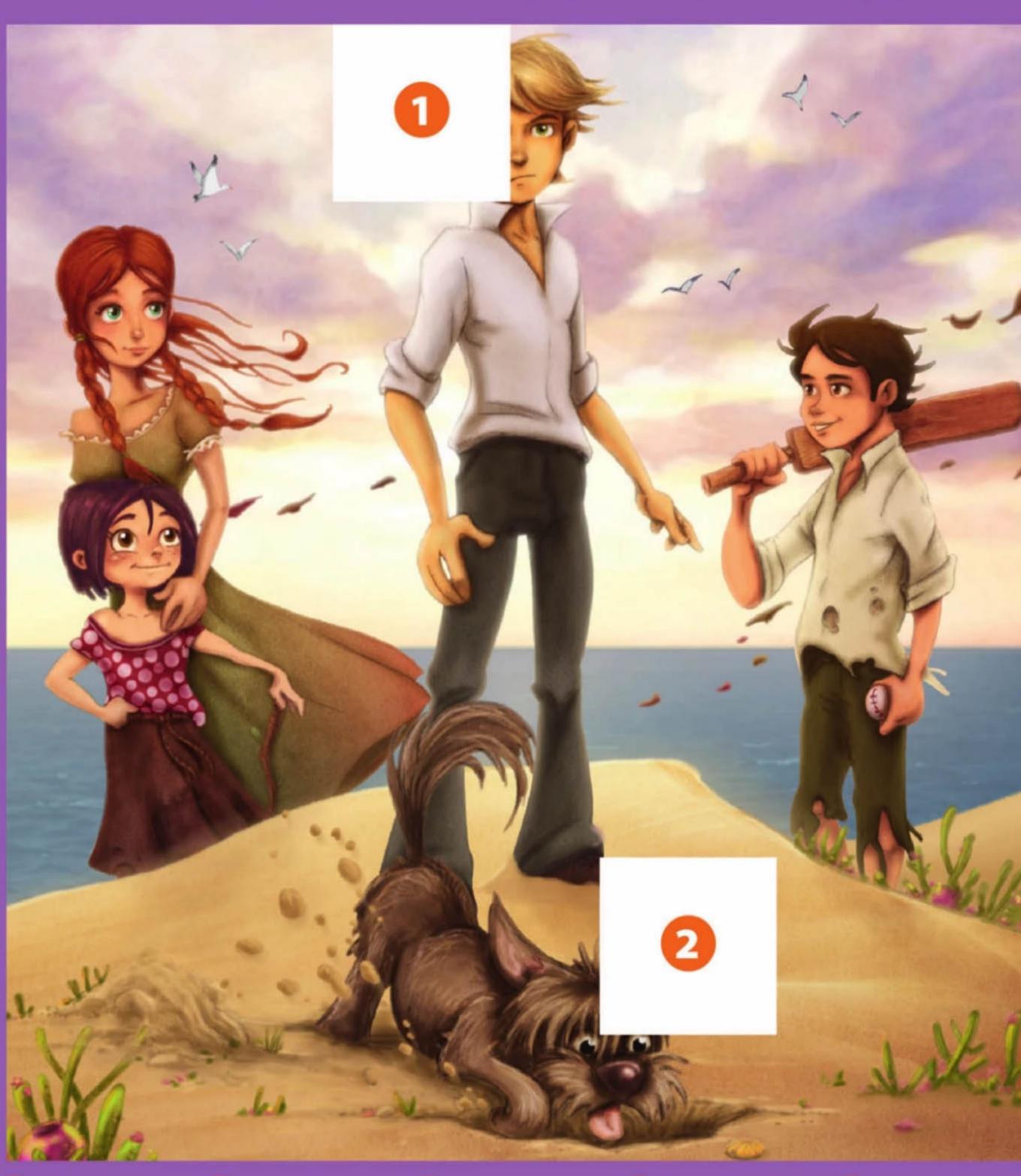
Butter has been told there are **ghosts** at the nearby isolated **Howlers Beach** – but are there? And how can the children Butter plays **cricket** with on the beach simply **vanish**? Who are these kids and why do they **refuse his help**?

Butter is certain they're hiding a **secret** and he's determined to **uncover** it! You'll love this exciting new book from **Jackie French**!

Top author
Jackie French is the former Australian Children's
Laureate, and has written over 140 books!

#### MISSING PIECES

Two bits have been removed from this picture of Butter and the children on the beach. Can you match the missing pieces?



Brand-new mystery and adventure series!

ACKIE FRENCH

#### LOST LETTERS

Write a **letter** in the **blank spaces** of this puzzle to form a **word either side!**Do it correctly and you'll reveal another name for a **ghost**.

Puzzle answers on page 49

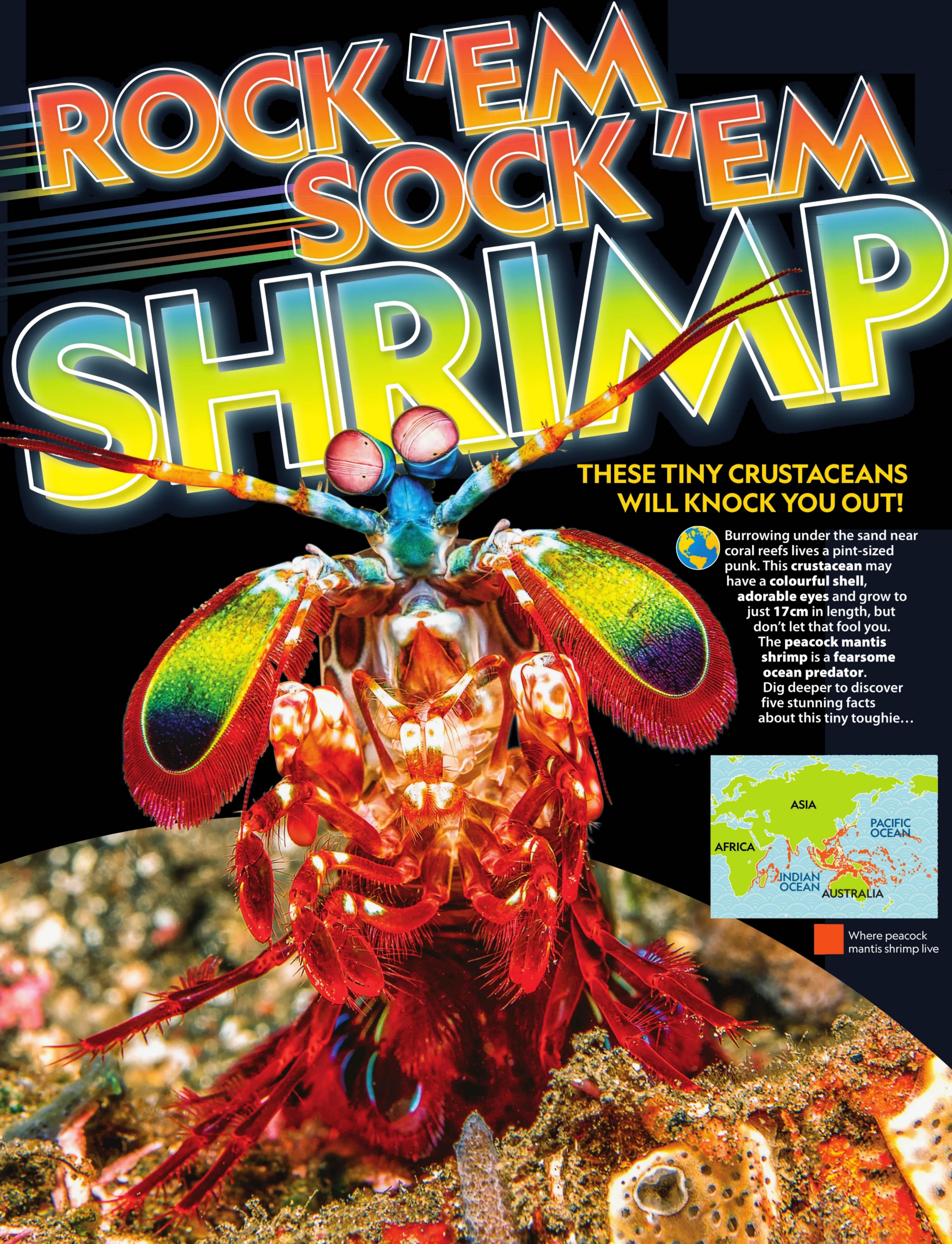
PAT OOOK
YOG NTS
BEA EED
SEA OOOL
ALS VER
TEA EET

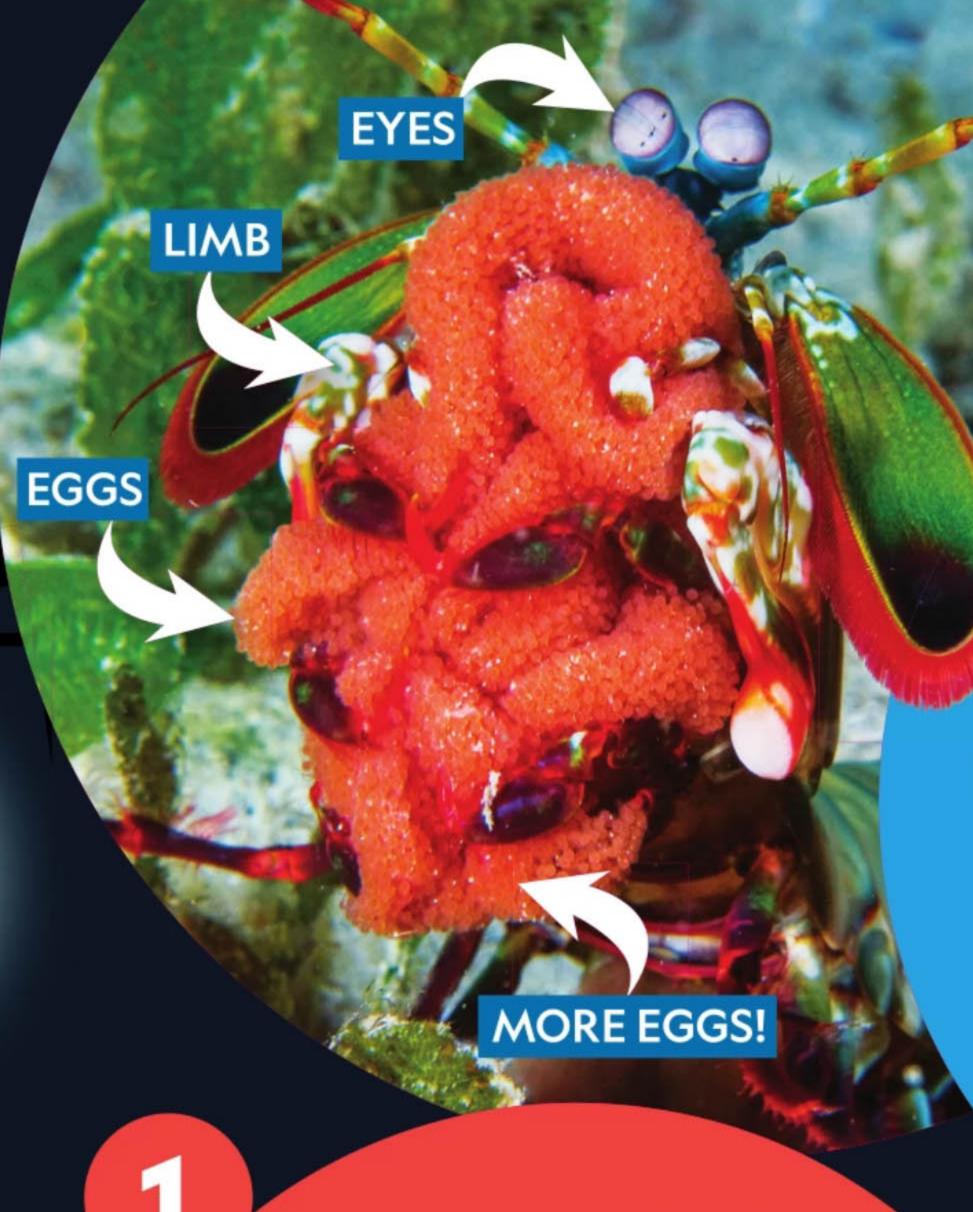
#### BRILLIANT BOOKS!

We've got three copies of The Ghost of Howlers Beach up for grabs! Just head online and answer this question for your chance to win!

- What are the main ingredients of jam?a) Berries and sugar b) Oranges and honey
- c) Potatoes and salt

Enter at natgeokids. com by 23 April!





MEGA MUMS

Don't mess with peacock mantis shrimp mums! These protective parents secrete a glue-like substance that binds together thousands of eggs, which they carry everywhere. Then they'll spend about 40 days removing debris and fanning oxygen-rich water over the eggs with their gills. During that time, the new mums never leave their burrows - **not even to eat**.

**PUNCH!** PERFECT

SEA SNAIL

Peacock mantis shrimps have to **punch** for their lunch. That's because many of their favourite snacks – such as crabs, clams and sea snails - are protected by superhard shells. Luckily, the shrimps are the most **powerful** punchers on the planet. They have two hinged, hammer-like limbs that can thwack their targets with a force that's over 2,500 times stronger than their body weight. (That would be like you punching through a steel wall!) The crustaceans also use their limbs to defend their territory against other peacock mantis shrimps. In fact, they're so brawny that they've been known to shatter aquarium tanks' glass!

#### EYESPY

Sitting on top of two stalks that can move in all directions are a mantis shrimp's powerful eyes. The remarkable peepers have more colour receptors than any animal, including **humans**. These extra receptors allow them to see a type of **light** that's invisible to all other animals. The shells of males and females reflect this light in different patterns, helping them find a mate or avoid a fight with another mantis shrimp. Cool!

These invertebrates dig U-shaped burrows to live in.

> SPEED DEMON

Don't get on the wrong side of a peacock mantis shrimp – they strike so quickly that they could land 50 punches in the time it takes you to blink your eye. Whoa!

The mantis shrimp's punch is so fast that it also causes the water in front of it to **boil**! Tiny **bubbles** are created, and when they burst they release a **huge** wave of energy which thumps the victim hard.

mantis shrimps are named after colourful peacocks and also praying mantises, because of the way they fold

Peacock

A male's shell is more colourful than a female's.

BRAINIAC ATTACK

Peacock mantis shrimps have to be smart about how – and when – they wield their weapons. "They can remember another mantis shrimp they've fought before, and whether they won or lost," says Roy Caldwell, a biologist at the University of California in the USA. They can then work out whether it's worth getting into a fight! When they're going after a tricky meal, peacock mantis shrimps go in with a plan of attack. "If they're dealing with a crab, they'll first knock off the deadly claws, then the legs, and then they'll use their own limbs to hold the crab in just the right place for a shellshattering punch," Roy says. Such brainy beasts!

their limbs. Yikes! **FEEDING** WALKING ............. LIMBS

PUNCHING LIMBS



# Festive Parades

These super spectacles will put you in a party mood...



# FLOWER POWER

For more than a century, flowercovered floats and marching bands have dazzled crowds at the annual Rose Parade in **Pasadena**, USA, on New Year's Day. Sports fans then stick around for the Rose Bowl **Game** – a famous **American** college football match!

## BLAZING BOAT

The **Up Helly Aa** festival in the Shetland Islands, Scotland, ends every **January** in a blaze. Harking back to a Viking ritual, hundreds of torchbearers march through the streets of **Lerwick** before **setting fire** to a 9-m-long galley – a type of Viking ship! What a way to celebrate the islands' history!



# COLOURFUL RITUAL

से. सोन् भाऊगव काले

Millions of **Hindus** come together to take a ritual dip in one of four sacred rivers in India as part of the Kumbh Mela festival – in 2001, a record-breaking **60 million** people gathered at the confluence (place where two rivers join) of the **Ganges** and **Yamuna** rivers! The religious procession can include elephants and camels, too.

# 5 BALLOON BONANZA

Each year, more than three million people line the streets of New York City in the USA to watch the Macy's Thanksgiving Day Parade, with 50 million more watching on TV! The parade, a threehour procession of giant inflatables, dancers and marching bands, has been held almost every November since 1924.



### DANCEPARTY

With elaborate headdresses and costumes, dancers perform the samba, an Afro-Brazilian group dance, in front of a crowd at the Carnival parade in Rio de Janeiro, Brazil. Carnival, a festival of merrymaking and feasting, allows people to let loose after a couple of months of winter.

## CLOWN REVELRY

**Giant jesters** parade through the streets of the historic French Quarter in New Orleans, USA. During the annual Mardi Gras celebration, nearly 100 'krewes' – or festive groups – toss goodies including toys, stuffed animals and Mardi **Gras beads** to the people who come

to watch. Take it away!





People in Venice, Italy, take their parades to the water. That's because this city is built in a lagoon with canals for streets. During the Venice Carnival in February, revellers float down the Grand Canal in decorated gondolas and other boats like this giant mouse gondola!



# 

Sparkles is back!

NATIONAL GEOGRAPHIC

Red-eyed tree

frog by Hazel, 6

### SPARKLES SURPRISE!

In December 2018, our budgie Sparkles was sitting in her cage in the garden enjoying the fresh air. After a while we stopped hearing her tweet so went to check on her. She was missing! We called her name and looked everywhere, but Sparkles was gone! We put up notices and posted on social media. But nothing. You don't know how bad this was. Our Sparkles was really special - she'd sit on our shoulders and nuzzle her beak on our cheeks. She'd give kisses and sing in our ears!

Then, seven months later, our neighbour showed us a picture of our bird! Someone had found her and posted on the Lost and Found Animals Facebook page. We got our beloved Sparkles back!

Yameema, 12

Wow! We're so glad she returned, Yameema. She must have been on a real adventure!



Hi NG KiDS, Last year, my family and I went to Vrindavan, India, for the second time. We helped a cleanup group pick up rubbish around a holy temple. There was a lot of rubbish, and they were teaching people about using less plastic. So please use less plastic! Bhakti, 10

Great job, Bhakti!

# NAT GEO KIDS ON TOUR

Our family has just bought a new boat and we have been exploring different places every weekend. Recently we sailed to Tangalooma Island and I bought along my Nat Geo KiDS mag! I love it because it's got lots of interesting articles, but I also love all the puzzles and activities at the back which are fun to do. I only got a few drops of water on it so my brother could still read it after!

**Zara**, 10

 Glad to hear you're sharing (and caring for!) your mag, Zara!



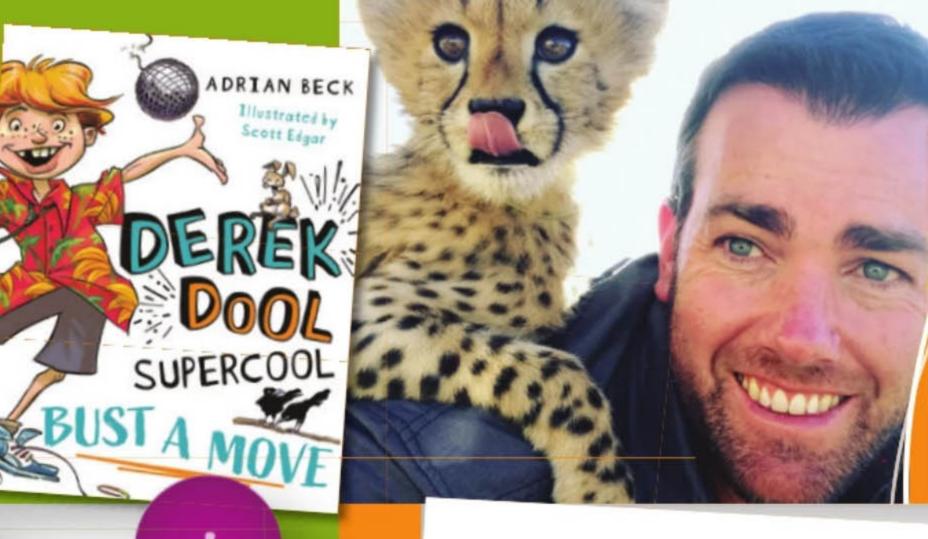
NAME: Lloyd **BREED:** Border collie

**SPECIAL FEATURES:** Different coloured eyes - one blue, one green! LOVES: Sleeping, cuddles, eating, and playing with his big sister Goldie. **HATES:** Sleeping by himself and being

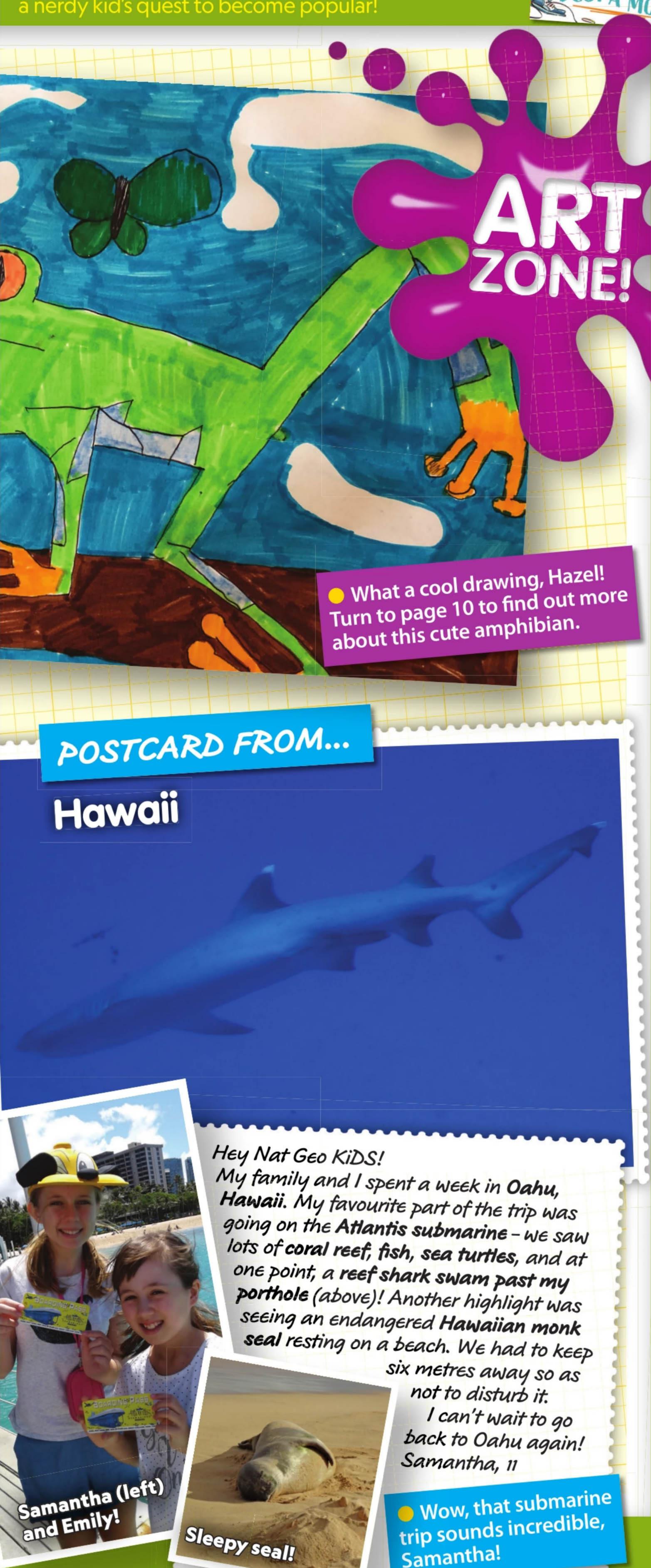
ignored. He doesn't like staying outside for too long either. **OWNER:** Evie, 10

We want to hear from you! Send in your artwork, jokes, craft pics and pét photos. Tell us about your wildlife sightings, hobbies, interests and opinions. A selection of our faves will be printed on this page. Email us at editorial@ngkids.com.au

Every reader on these pages will receive the first book in the hilarious Derek Dool Supercool series, all about a nerdy kid's quest to become popular!



with Ben Britton



Samantha!



#### What is it?

A pugmark is the footprint of an animal, left as a track on the ground!

#### Why do researchers use them?

The best way to identify a species in an environment is to see it for yourself. When that isn't possible, researchers need to look for evidence that the animal was in the area. One of the clear signs that an animal has been nearby is the footprints it's left behind!

What can they tell you?

A simple pugmark can tell you a lot! You can

often identify the species, whether it's a juvenile or an adult, which direction it was heading and sometimes the **speed** it was moving when it created the pugmarks. Wow!

#### Where do you find them?

**Anywhere** an animal has walked! But the best pugmarks are found in soft sandy soil, or wet clay / mud.

> To learn more about Wild Cat Conservation go to wildcatcentre. org.au

# BANGUMBERS

### SPACE JUNK!

Not only have humans trashed the planet, they've made a mess of space, too!

Beyond the clouds, further than the eye can see, millions of pieces of debris are floating around Earth. Read on to find out what's up there...

1965

Year astronaut Ed White lost one of his gloves during a space walk.

20,00+

Pieces of **debris** larger than a **tennis ball** orbiting Earth.

MILLIONS

Pieces of debris that are so small they can't be tracked.





Distance most space junk floats above Earth's surface.



# 28,163 KMPH

Speed that objects orbit the Earth. At this high speed, even the tiniest piece of junk can be a serious hazard. Space shuttle windows have been damaged by pieces as small as a fleck of paint!

500,00

Pieces of debris the size of a **marble** or larger.

Number of telescopes the Falcon Telescope Network uses around the world to track objects floating in space there's one in Canberra!

## SPECIAL SUBSCRIPTION OFFEI

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GAMES, LAUGHS, AND LOTS TO DO!

# RAINEORESTEU

Test your knowledge of jungles and the creatures that live in them with our bumper crossword! Answers on page 49

Use the picture clues to help!

6 DOWN

18 DOWN

2 DOWN

4 DOWN

### 20 ACROSS

#### **ACROSS**

- 3 Overlapping branches and leaves at the top of the rainforest (6)
- Often derived from rainforest plants. Used to treat illnesses (8)
- 8 Small Central American country, known for its biodiversity (5, 4) rainforest. Hottest, wettest
- type of forest (8)
- 12 Another word for a rainforest (6)
- 15 World's largest rainforest (6)
- 16 A word that describes when trees are chopped down (13)

- 17 Curved yellow fruit originally found in rainforests (6)
- 18 Slowest moving mammal on Earth (5)
- poison dart frog. Amphibian named after a sweet red fruit (10)

#### DOWN

- Rosette-covered wild cat from South America (6)
- Large pig-like mammal with a mini 'nose trunk' (5)
- 4 Small primate named after an 8-legged insect (6, 6)

- 5 Big-beaked bird (6)
- 6 Bright red parrot. Also has yellow and blue feathers (7, 5)
- Many rainforests are cut down to make way for plantations of this (4, 3)
- 11 Sharp-toothed fish, found in the Amazon River (7)
- beetle. Insect with huge horn named after an African mammal (10)
- 14 Ape, known as the 'king of the swingers' (9)
- \_-glider. Small *sweet* possum that can glide between tree branches (5)
- 19 Stripy big cat (5)



### RAFT RESCUE!

Ask a friend to give you words to fill in the blanks in this story without showing it to them. Then read it out loud for a laugh.

#### **GRAMMAR TERMS!**

Noun – a person, place or thing Verb – an action word that describes what a person or thing does

Adjective – a word that describes a noun

Adverb – a word that describes a verb



My family went on safari in	ountry to ride a	a raft down the	body of water	nd check out
	d first. Suddenly the raft b		I was	ding in -ing
	nyself!large numb	km later a bunch		
surrounded me. They flapped their		nen without warning they	grabbed my	e of clothing
and lifted me high into the air. "	exclamation	!" I yelled. When I fina		
I saw somefurry animal	cubs and a(n)	olour spotted a		ould run
faster thanfamous athlete	Then I spo	otted my parents. "Thanks		rs as they
	the ground. No one at ho	ome will believe this —	adjective	——tale.
			O W WW	
			May 1	

Can you find 20 differences between these two rainforest scenes? Answers on page 49









# FUNSIUE COCONUT & COCONUT



# RANGE

Tuck in to a totally tropical treat!





in an oven heated to 180°C /

Gas Mark 4. Take them out when they're

a light golden brown colour. Yum!

# FUN STUFF

#### MISSING PIECES

(page 33)

1 - 3 and 2 - I

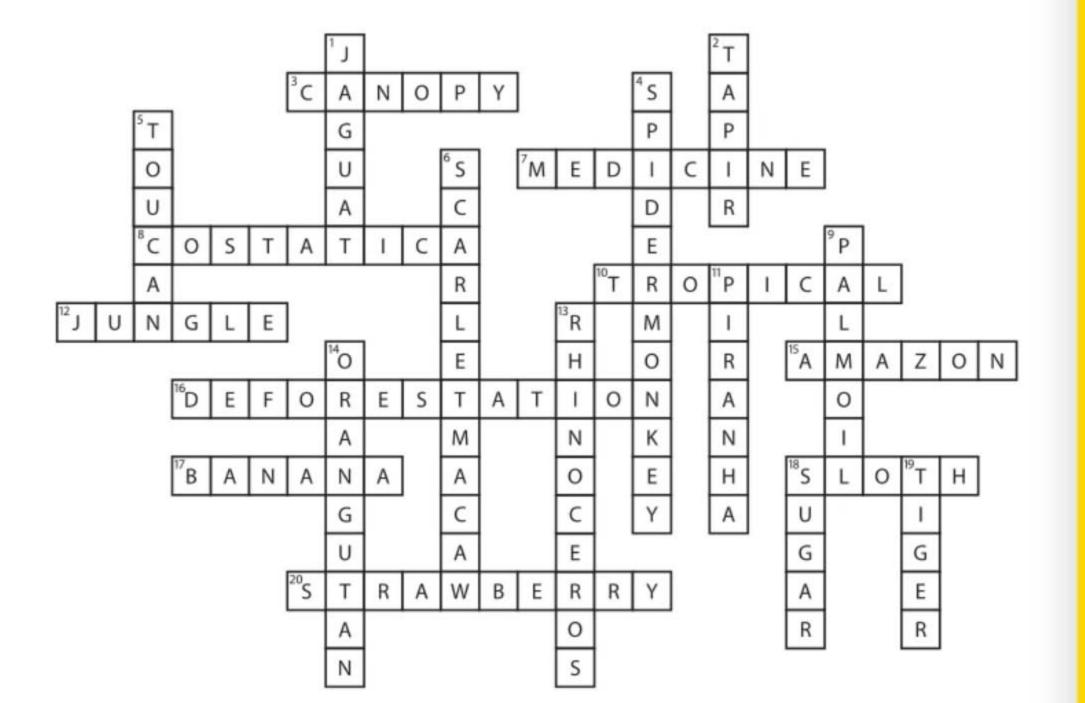
### LOST LETTERS

(page 33)

The word is **PHANTOM** 

### JUNGLE SPOT THE DIFFERENCE (page 46)

### RAINFOREST FUN (page 44)





The April Fool's story this issue is on page 5 – Child steals penguin from zoo!

### THE LAST LAUGH

Q. Why can't jaguars hide? A. Because they're always spotted!

Q. What do you get if you cross a centipede with a parrot? A. A walkie-talkie!

Q. What's a crocodile's favourite game? A. Snap!

Q. What do sloths like to read? A. Snooze-papers!

Q. What's the difference between a wet day and an injured lion? A. One pours with rain and the other roars in pain!

Q. What do you get if you cross a fish with an elephant? A. Swimming trunks!

Q. How do you make toast in the jungle? A. Put it under the gorilla!

Check out the planet's strangest pictures...



## Porky no

Ok, pigs might not fly, but **LiLou** the therapy pig helps make flying less stressful. LiLou and her owner **Tatyana** Danilova sit with nervous passengers at San Francisco Airport in California, **USA**, before they board their planes, helping them stay calm. Aww!

## Hair-larious

What's the craziest hairdo you've ever had? Well, we bet it's got nothing on these frosty folk! They've all entered this year's Hair Freezing Contest at Takhini Hot Springs in Yukon, Canada. The rules are simple – when temperatures plummet below -20°C, competitors dunk their heads under the warm water. Their fuzz then freezes when they come up for air. Cool! Who do you think has sculpted the silliest style?



# Wheelie good reads!

Designers Luo Yujie and Lu Zhuojian, from Beijing, China, have come up with an ingenious way to repurpose unwanted bicycles and scrap metal - turning them into mobile libraries! This one, known as the **Shared Lady** Beetle, is shaped

like an insect, and is filled with **second**hand books. Brilliant idea!



Have you ever seen a window cleaner in fancy dress?! This worker, snapped in **Tokyo**, **Japan**, was dressed as a **rat** to celebrate the Chinese New Year.

Check out Said Jammal's surprising home! Said, from Abuja, Nigeria, lives in a pad shaped like an aeroplane!

### SPOOKY COSTUMES

This funny-looking fella, pictured at the recent Sylvesterchlausen festival in **Switzerland**, was pretending to be Chlaeuse - a character said to scare away evil spirits.

## NATIONAL GEOGRAPHIC

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# In next month's NG KiDS...





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# NATGEO KIDS!

