



### Kiwi kids being denied the right to hear and learn.

### Help us to buy 50 pairs of hearing aids with remote microphones.

Before Sophie was diagnosed with Auditory Processing Disorder (APD) we had been noticing small things. Small, but significant. For example, she would become anxious when in a noisy crowd. At birthday parties she would sometime put her hands over her ears and ask to go home early.

It was also difficult to distract her when she watched TV. She would fall asleep in the car on the way home from school. On several occasions she became in the car on the way home from school. On several occasions she became in the car on the way home from school. On several occasions she became in the car on the way home from school what was expected of her in class. It is also noticed when I visited the school that she played by herself – happily I also noticed when I visited the school that she played by herself – happily enough – but regardless, on her own. She was also having a lot of trouble enough – but regardless, on her own. She was also having a lot of trouble with reading and writing and spelling. We thought this was a phase and that maybe were expecting too much of her. We were so very lucky to have a teacher that picked up her APD.

Once the hearing aids were in place and we had the system working properly, Sophie began immediately to flourish.

We are fundraising to support 50 kids in New Zealand that come from families that cannot afford to buy the hearing equipment they desperately need to lead a happy life and flourish, like Sophie did.

### Please donate via

Direct Credit: ASB 12-3011-0519936-00 Reference: Apd www.givealittle.co.nz (search The National Foundation for the Deaf)
Find out more at nfd.org.nz/supportourwork or email enquiries@nfd.org.nz or call 0800 867 446, +64 09 307 2922

	JODhle
Please accept my donation of \$50, \$25, \$20, \$10 Other \$	
I enclose my cheque made payable to The National Foundation for the Deaf Inc.	
Visa Mastercard Diners American Express	
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Signature	Email
Please post to The National Foundation for the Deaf PO Box 37729, Parnell, Auckland,	1152, New Zealand.

### NATIONAL GEOGRAPHIC KiDS

### Happy New Year!

We hope you all had a spectacular summer break and a super-cool Christmas, and are raring to start this brand new decade! WE sure are! The Chinese New



Year of the Rat begins in January, too, so we take a closer look at this much misunderstood mammal. Plus, find out what your birth year might say about you on page 34!

Ever thought your pet was laughing at you? We explore whether animals are jokers on page 10 - and you can test whether YOU have a sense of humour with the top jokes on pages 16 and 47. Plus, everyone's fave brainbox Dr Karl is back for a chat on page 18. Check it out! Enjoy the issue!

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

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Am I

nice or gnaw-ty



AWESOME 8 Check out some of the world's most bizarre beaches!

To celebrate Chinese New Year, we find out about rats!

Discover

your birth

animal on

### PLUS!

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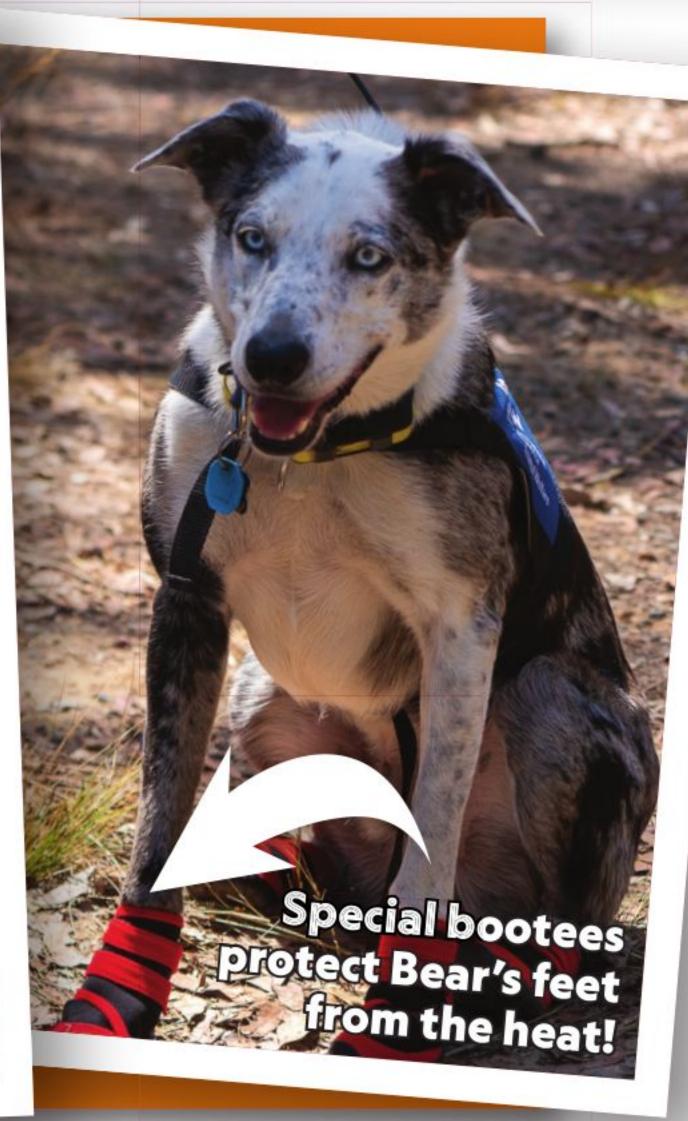
### INSIDE The latest news from around the globe...

Dog saves koalas:

Meet Bear the detection dog! This six-year-old border collie / koolie cross has been helping to save koalas caught up in Australia's terrible bush fires by alerting humans to their presence. Trained by Detection Dogs for Conservation, clever Bear has been taught to recognise the scent of koalas' fur so he can sniff them out – and when he does, he's rewarded with his favourite ball toy!

Bear was chosen for the job because he has lots of energy, is super focussed and, most importantly, won't attack koalas or other wildlife! Since passing his training, Bear has located many displaced, sick, orphaned and injured koalas and quolls in the wild, but this is the first time he's worked in fire zones. Go, Bear!





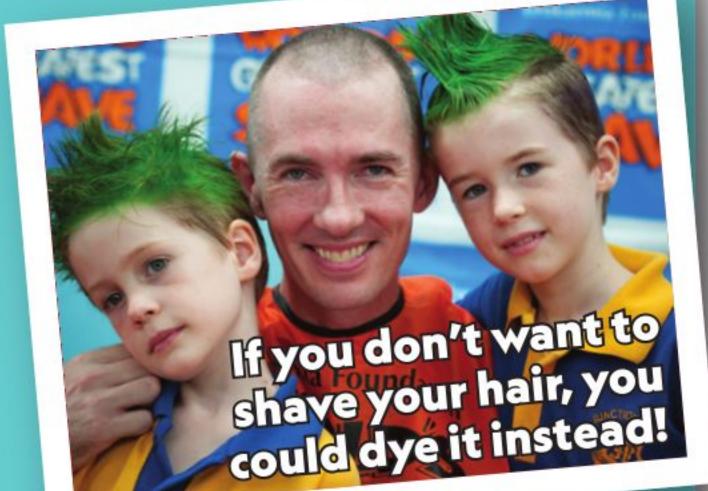


The World's Greatest Shave

If your New Year's resolution for 2020 is to do more for good causes, maybe you could sign up for The World's Greatest Shave! Get sponsored to remove ALL your lovely locks and raise money for people with blood cancer! Why shave? Well, a side effect of some cancer treatments is losing your hair – so walking around with a shaved head will help you think about what life might be like for someone who has gone

through that **physical change**. Plus, the money you make will help thousands of families affected by blood cancer.
Go on, shave the world!

For more info, or to get your school to sign up, head to worldsgreatestshave.com The 2020 campaign runs from 11 March to 15 March.



FAST FACTS!

### Chinese New Year

People all over the world will celebrate Chinese New Year on 25 January, welcoming in the Year of the Rat.

Chinese New Year takes place on the first new moon of the year (25 January in 2020), and ushers in the beginning of spring. Also called the Spring Festival, it lasts for 15 days until the full moon. A Lantern Festival takes place on the final day!

The colour red symbolises good luck in China, so it plays a very important part in the festivities. Red clothes are worn, streets and homes are covered in red decorations, and children are given money in red envelopes. Nice!

In the lead up to the celebrations, all homes are cleaned to get rid of hui qi, which are unlucky thoughts that have collected over the past year. Then, at midnight, all the doors and windows in houses are opened to allow the old year to leave.



Illustration © Marek Jagucki; Bear © Fiona Clark (Bear is funded FWA); Queens Commonwealth Essay Comp launch © British High Commission lington; reef image © Harry Harding, University of Bristol. All other pictures © Getty

### Awesome essay comp! GET

Do you love writing? Are you passionate about climate change? Then you should totally enter the Queen's Commonwealth Essay Competition 2020! This year's theme, 'Climate Action in the Commonwealth,' encourages young writers from across the globe to explore this vital issue, with the winner and runner-up in the Junior Category being taken to London, England, for a special awards ceremony! Established way back in 1883, the Queen's Commonwealth Essay Competition is the world's oldest writing comp for schools. So get entering and be part of history!

• Enter by 30 June 2020. For more info, head to thercs.org/competition



### Could speakers rescue reefs?

A team of **scientists** working on the Great Barrier Reef are attracting fish back to damaged coral using underwater loudspeakers! And, no, they're not playing The Little Mermaid soundtrack! Instead, they're playing the sounds of healthy coral.

"Young fish listen out for the pops, buzzes, whistles and crackles of healthy coral, then swim towards it," explains project leader, Tim Gordan. "But on degraded coral reefs the animals that make those sounds are dead, so the reefs get quieter and less attractive to fish."

Tim's team found that when they broadcast healthy reef sounds, twice as many fish were attracted to degraded coral. "Boosting fish populations in this way could help to kick-start natural recovery processes on many coral reefs around the world," he says. Hooray!



# EVENI

### Fête du Citron

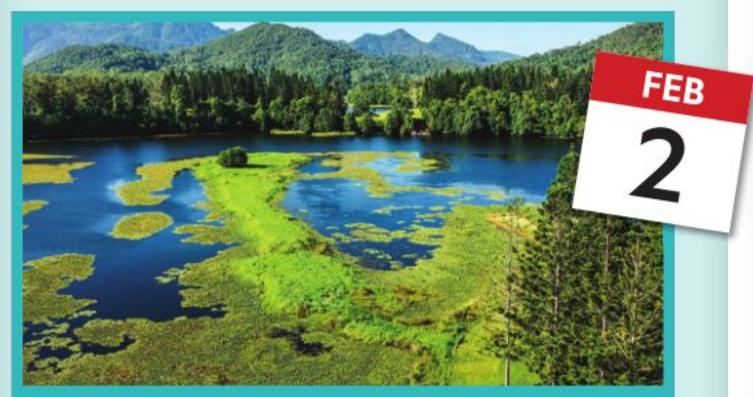
Each February, Menton, in the **South of France** holds the world's fruitiest festival – **Fête du Citron** or Lemon Festival.

The quiet coastal town bursts into life as nearly **250,000 people** arrive to celebrate all things citrus. Towering **10m-tall statues** are built in the town's **Biovès Gardens**, which start life as metal skeletons before being completely covered with **lemons** and oranges! Smaller statues are paraded through town, with entertainers, brass bands and folk groups dancing between the floats.

Each festival has a different theme – this year will celebrate festivals of **the world**. None of the fab fruit is wasted, though, as it's all sold off afterwards at bargain prices. What a great way to get your vitamin C!

### MAKEITA

What's going on this month?



**World Wetlands Day** 

Celebrate the world's watery lands!



Day of Women and Girls in Science

A day to get more girls into science subjects!



Valentine's Day

Will you give a secret card today?



### **Bowl-A-Rama**

Bondi Beach's big skate comp is on for two days this year!



### **World Day of Social Justice**

Let's tackle poverty, inequality and promote fairness for all!

### WHATS

Films and books to get excited about this month...



### Dorothy and the Wizard of Oz

Click your heels three times and prepare to be transported to the magical land of Oz, with allnew episodes of the fun fantasy series featuring **Dorothy** and her strange friends.

It's Dorothy and her potty pals!

The good doctor

and friends take

to the seas!

Expect adventure, mischief and creepy witches!

10am at weekends on Boomerang from 11 January





When secret agent JJ is sent to spy on a family flat, all the hench hero has to do is stay hidden, and then he can get back to doing what he does best – blowing things up and catching bad guys.

But things get complicated when nine-year-old Sophie discovers one of his secret cameras. She agrees to keep the whole thing hushed up as long as he teaches her the tricks of the spy trade!

In cinemas 9 January



**Vet Dr John Dolittle** has a surprisingly wild skill – he can **talk** to animals! Living alone in a fancy home in 19th-century England, Dr Dolittle's only friends are a group of exotic animals, including a gorilla, a

giraffe and his most trusted advisor, a headstrong parrot! But when young Queen Victoria becomes gravely ill, the doctor and his furry friends spring into action, setting sail in search of a mythical island where they hope to find a cure.

Dealing with old enemies who want to stop him and some amazing, scary creatures along the way, will the doctor find the cure and save the Queen?

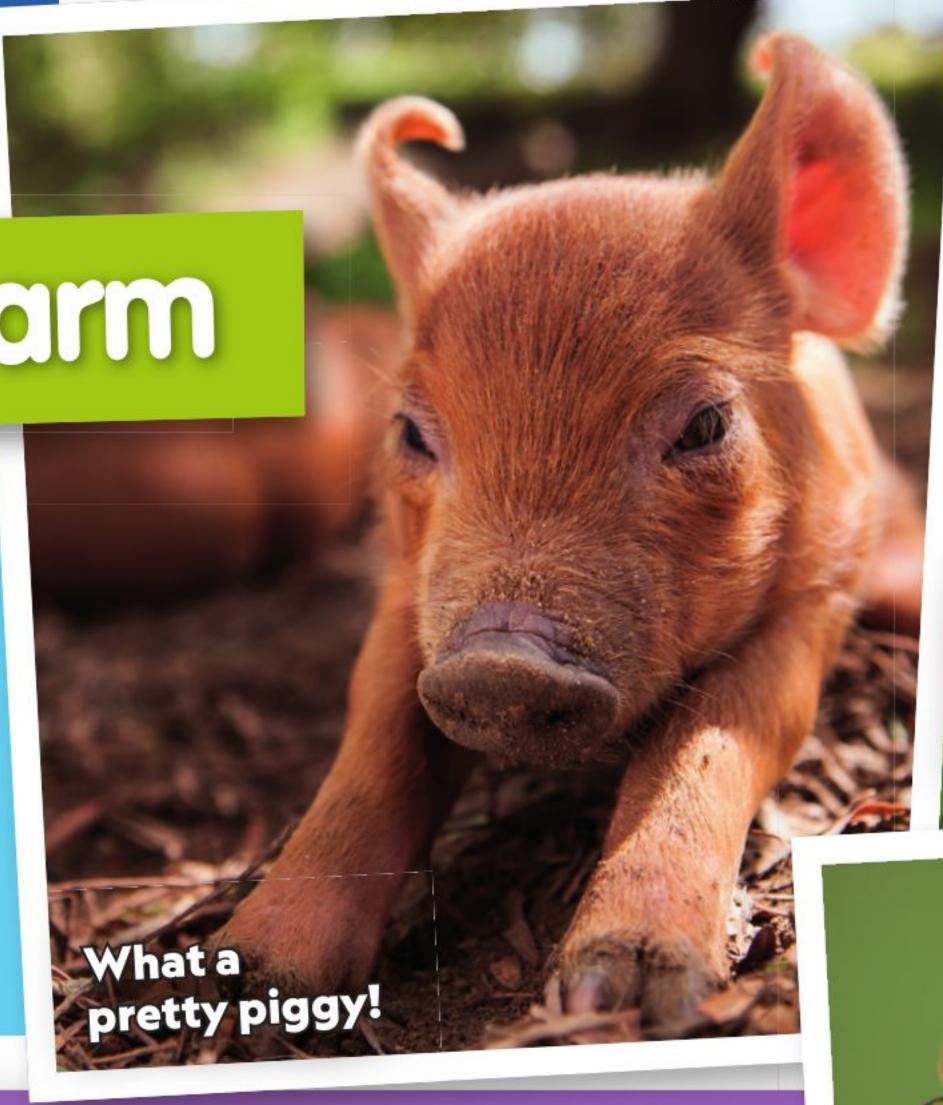
In cinemas 9 January



City slickers John and Molly move to the country to set up a farm, and they want their new home to be in perfect harmony with nature. But they soon find themselves up against hungry snails, mischievous moles, fruit-munching pests and perilous wildfires!

With stunning cinematography and heaps of cute animals, this uplifting documentary will make you appreciate the wonders of nature. Aww-some!

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Enter ALL comps at natgeokids.com

















We chat to Chloe Coleman star of hilarious and heartwarming action-comedy My Spy...



Hi Chloe, did you learn any real-life spy skills on set?

Yes, I learnt to be very quiet and stealthy. If I noticed people swearing on set, I'd jump out on them and make them put money in my swear jar!

### What did you use the money for?

At the time, the Amazon rainforest fires were happening, so I donated the money I raised to the Rainforest Alliance. I feel really strongly about climate change.

Brilliant! If you were a real-life spy, who would you most like to spy on?

I'd like to spy on social media sites like Instagram, Twitter and TikTok. I wonder what information they are grabbing from all the account users. And I'd like to know what they know about us!

If somebody spied on you, what would you be most embarrassed by?

I think I'd be embarrassed if somebody found out my love interest! I wouldn't want people knowing who I have a crush on. I'm not saying that I do have a crush, though...

Haha! Your character Sophie is really resourceful and good with technology. What are your special skills?

I'm actually a lot like Sophie! My co-star Dave Bautista bought me a computer for my birthday and I'm constantly editing on it and making animations.

Did filming My Spy teach you anything new about acting in action scenes?

Dave taught me that you have to be very intense when doing stunts. It's pretty safe on set but you can make it feel believable by having intensity in your whole body and scrunching up your face.

Amazing! So what else can we see you in?

I've been filming an action film in Berlin, **Germany**, a romantic comedy in **New** York, a comedy TV series and I'm also going to be in Avatar 2!

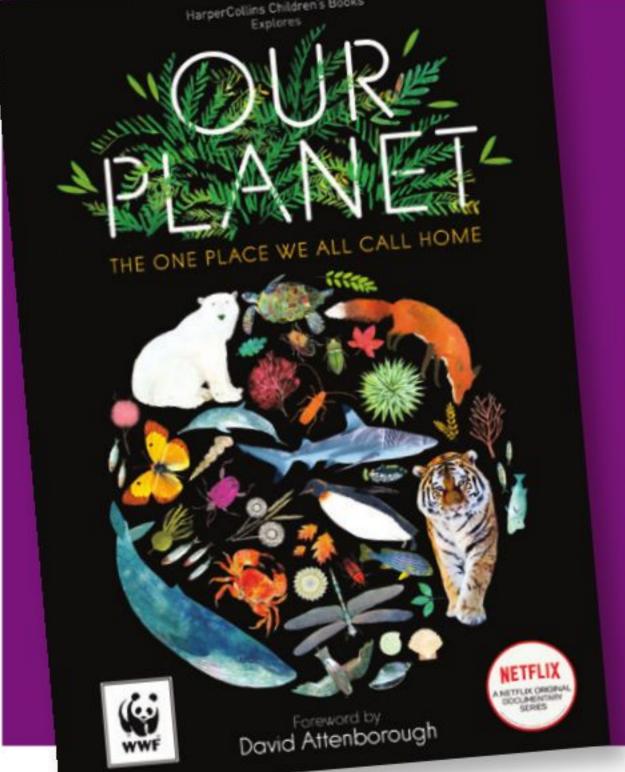
Wow! Looks like you have some really exciting projects on the way. Thanks Chloe!



### The Fate of Fausto Oliver Jeffers

This short but beautifully illustrated book tells the tale of an angry little man who believes he owns everything and sets out to survey what's his. A **flower**, a **sheep** and even a mountain all bow before him. But that's not enough for greedy Fausto, and so he conquers a boat and sets out to sea...





### Our Planet: The One Place We All Call Home **Matt Whyman and Richard Jones**

Have you been enjoying the spectacular **Our Planet** documentary series on **Netflix**? Well this awesome and inspiring kids' book combines extraordinary photography from the show with stunning illustrations! Journey through icy landscapes, dense jungles and endless oceans, and find out how human habitats interconnect with the plants and creatures living there, too. Best of all, this brilliant book includes a foreword by Sir David Attenborough himself!

### **Monster Nanny**

Tuutikki Tolonen, illustrated by Pasi Pitkanen

When Mimi's parents go off on their holidays, a new nanny is sent to take care of her and her siblings. The only problem is, their nanny is a monster! Grah is massive and hairy, and grunts instead of talking – but luckily he's quite kind, too. The trio soon learn that other neighbourhood kids have been left with monsters as well. So where did they all come from? With no parents around, they must depend on each other to solve the mystery of the monsters. This is one sweet, silly story!





to be more wary of

technology and the

influence it has on

their lives.

### The Unlisted book series **Justine Flynn and Chris Kunz**

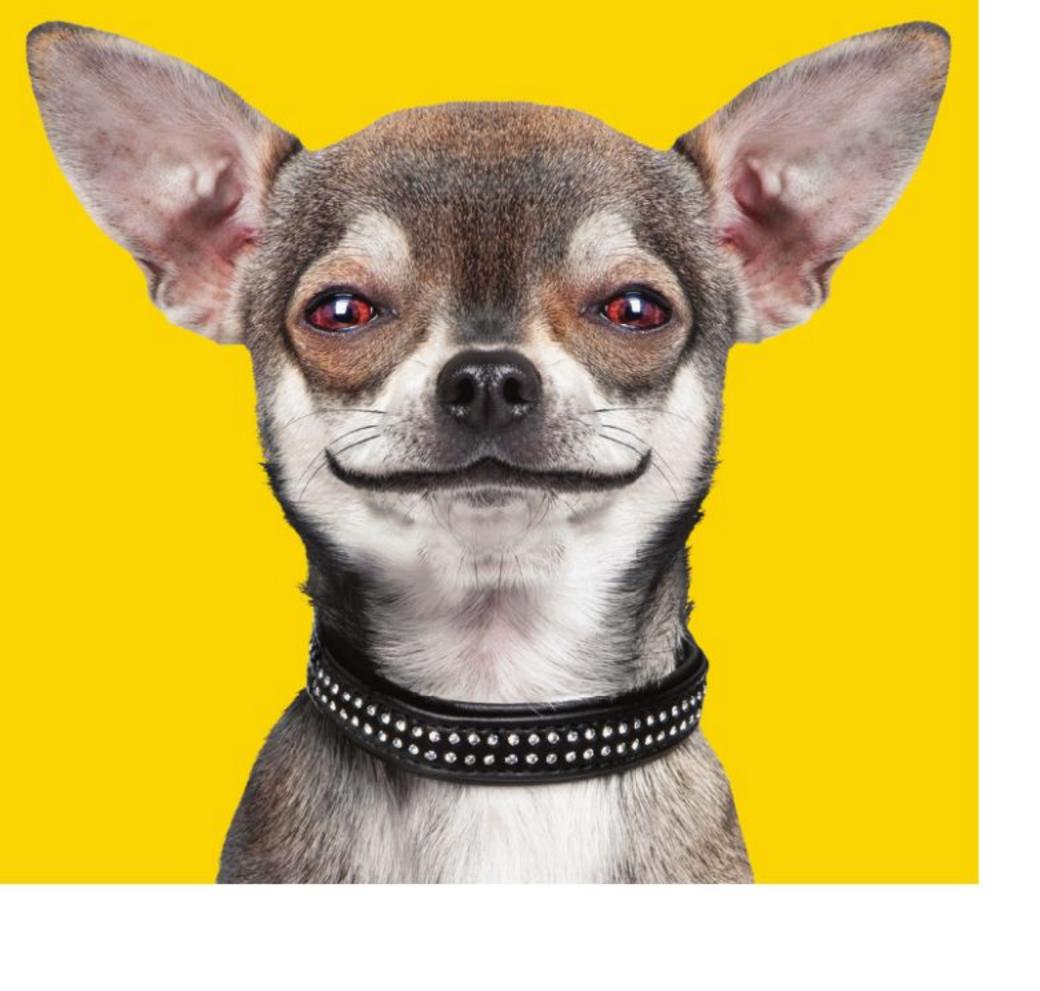
Twins **Dru** and **Kal Sharma** discover that a sinister organisation called **Infinity Group** is **controlling the minds and bodies** of the world's **teenagers**, and they join a group of vigilante teens known as The Unlisted on a mission to uncover the truth! Can they stop them?! With all three thrilling books based on the hit **ABC series**, get ready for a wild ride!

Five winners will grap all of these books: Head to natgeokids.com/au to answer this question... **Five** winners will grab all of these books! Head to Monster Nanny is written by a Finnish author. What is the capital of Finland? a) Helsinki b) Copenhagen c) Reykjavík

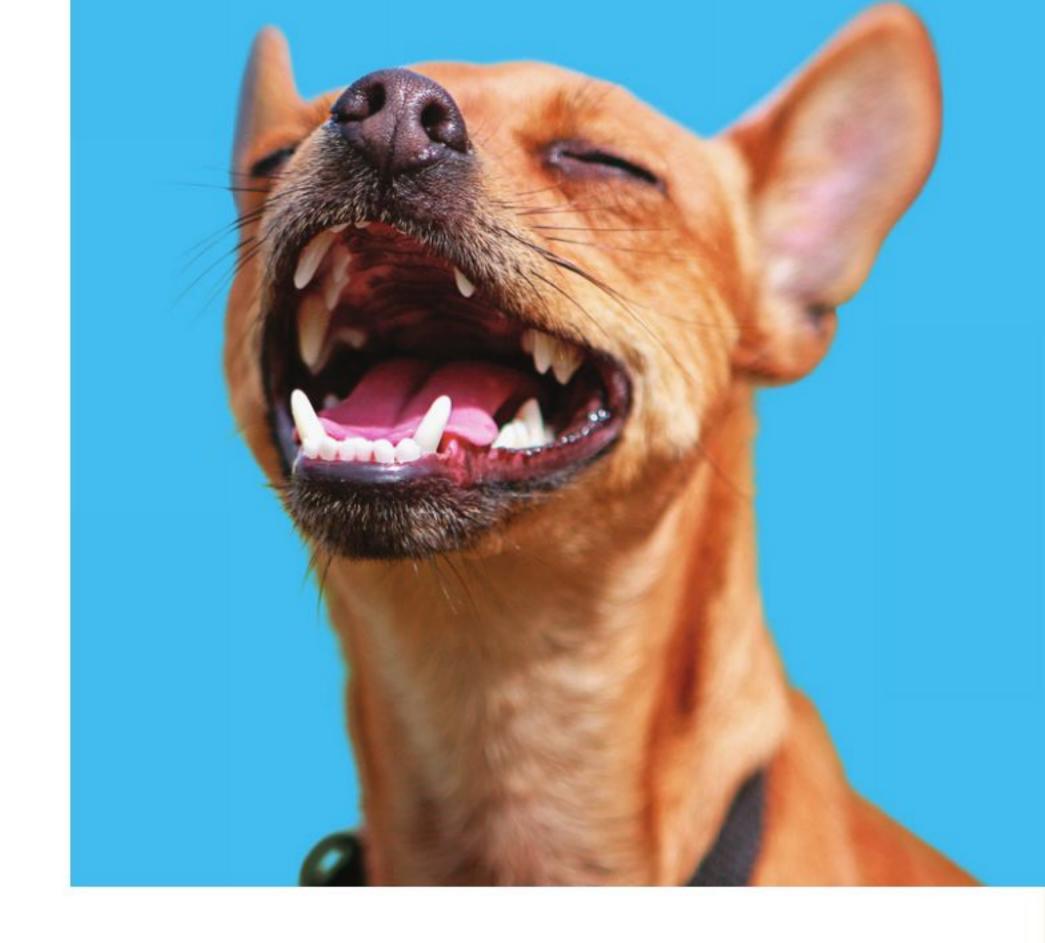
**Enter by** 27 Feb!

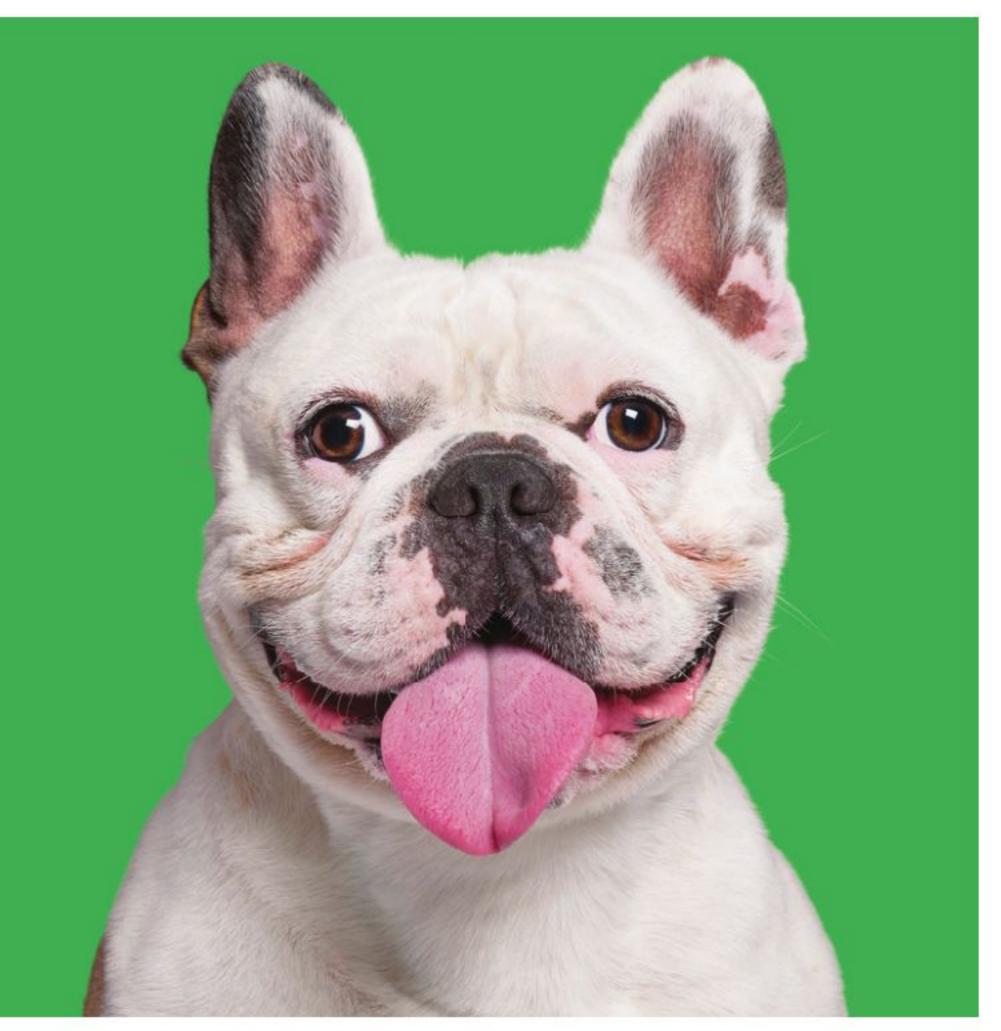




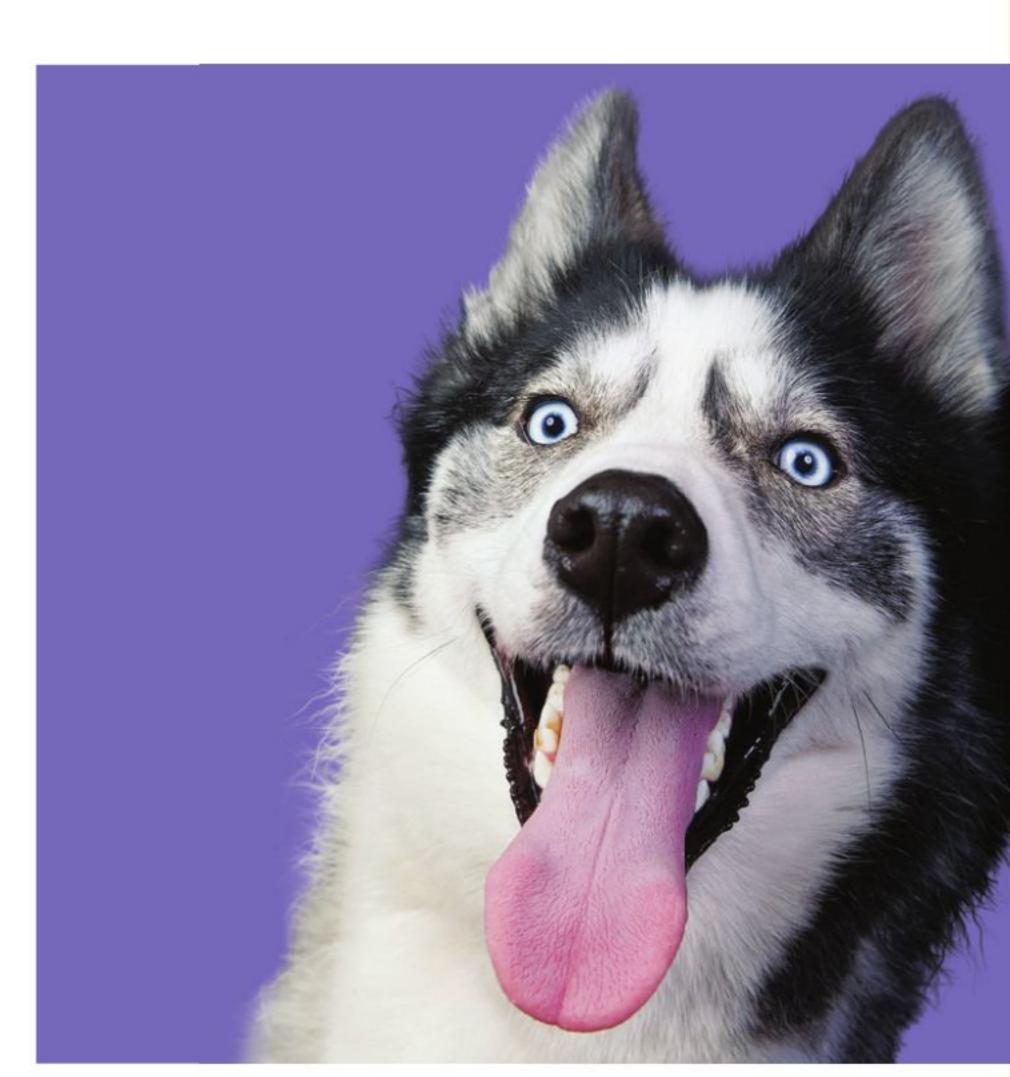


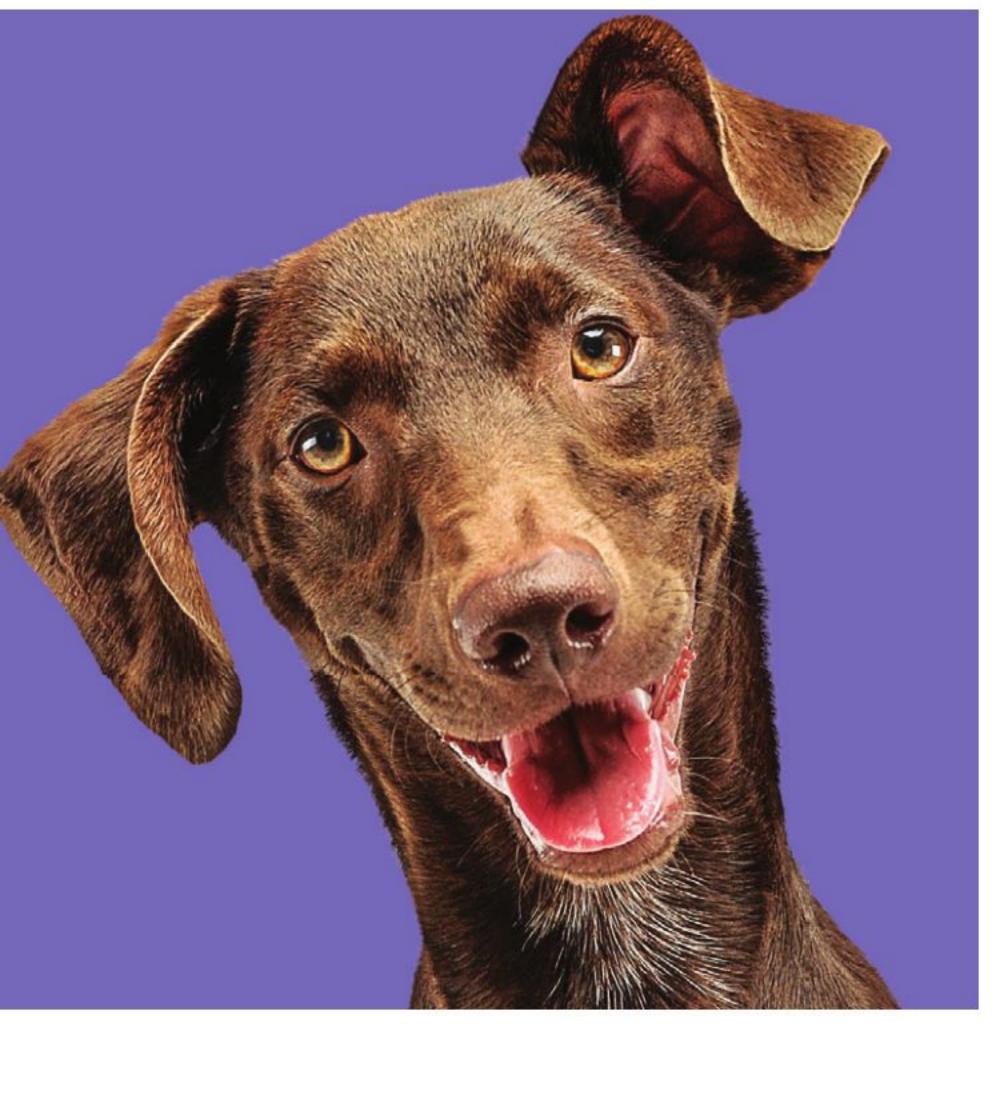


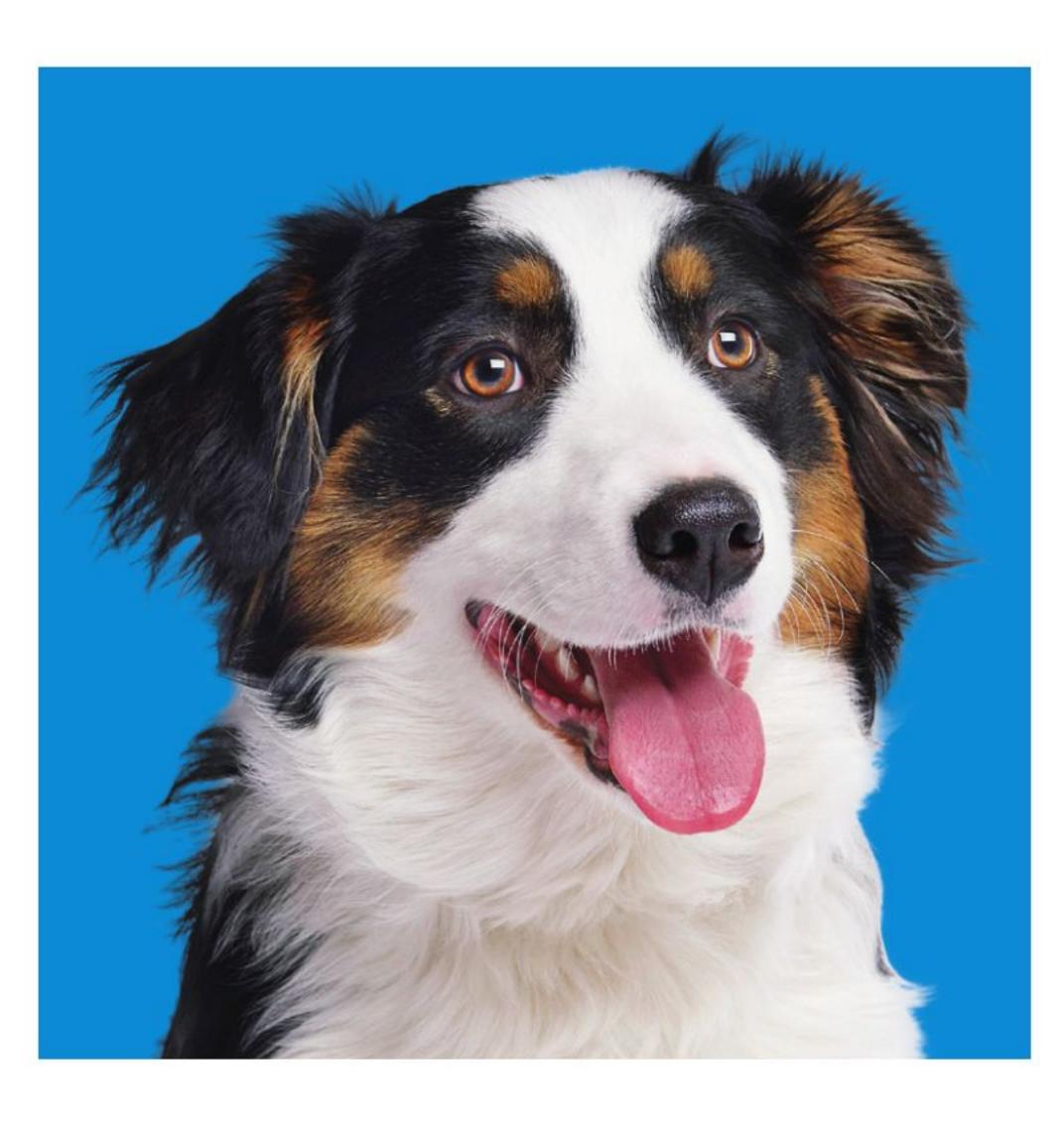


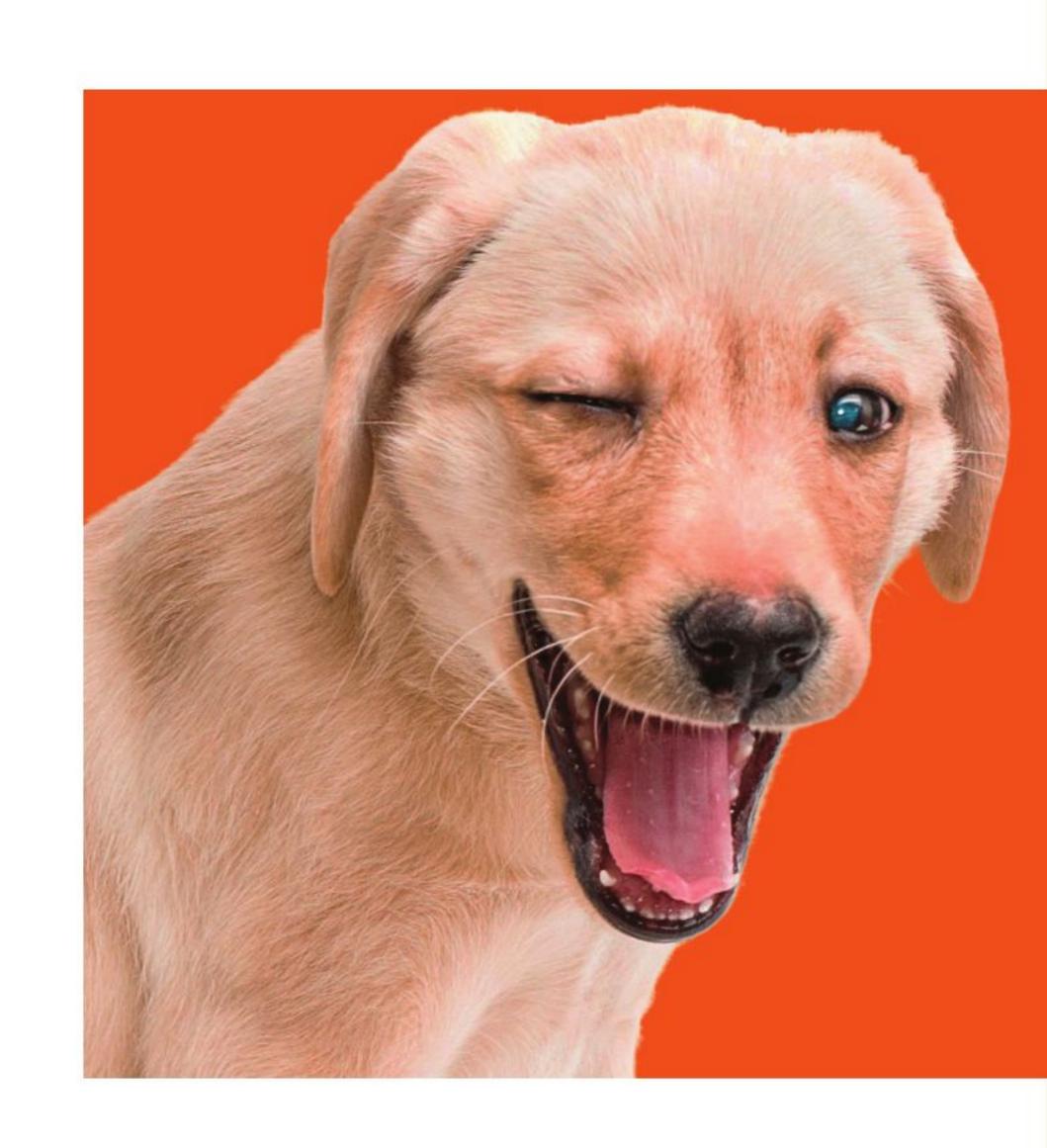




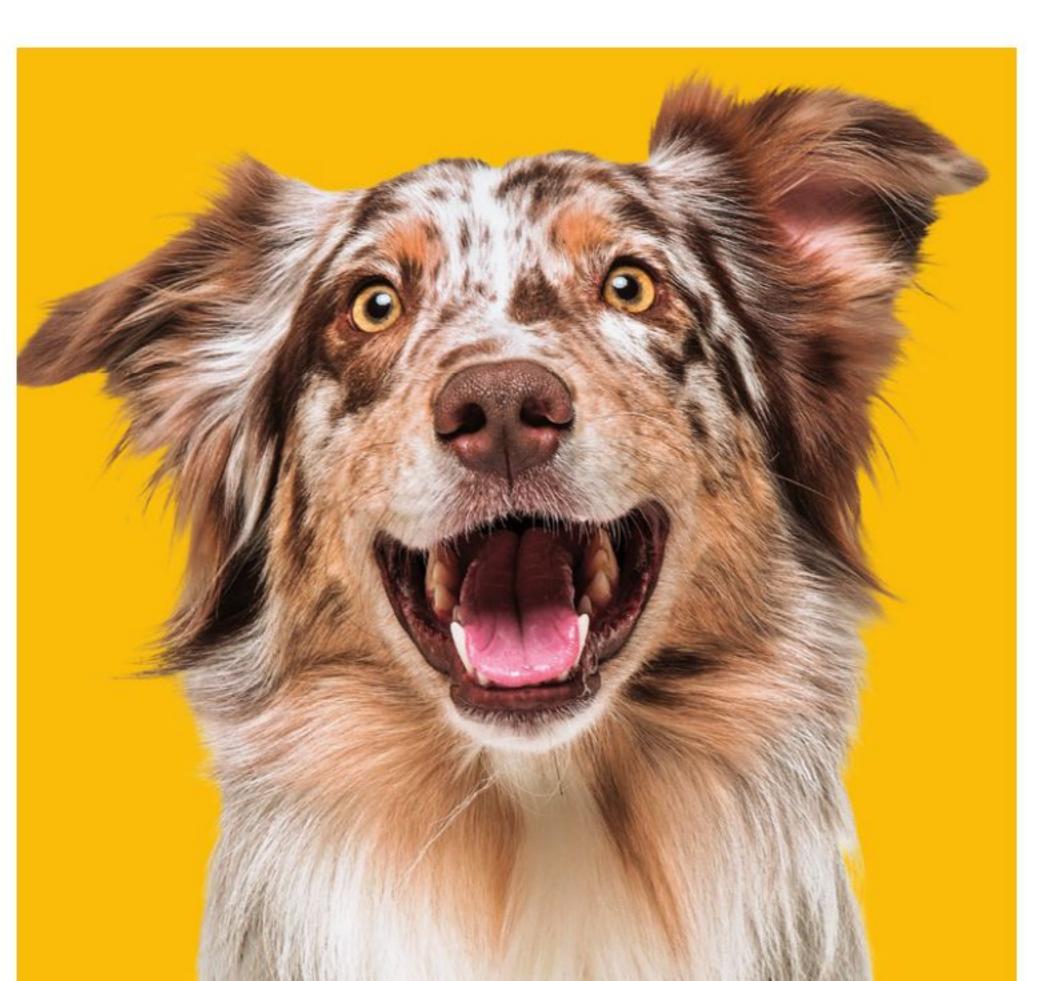


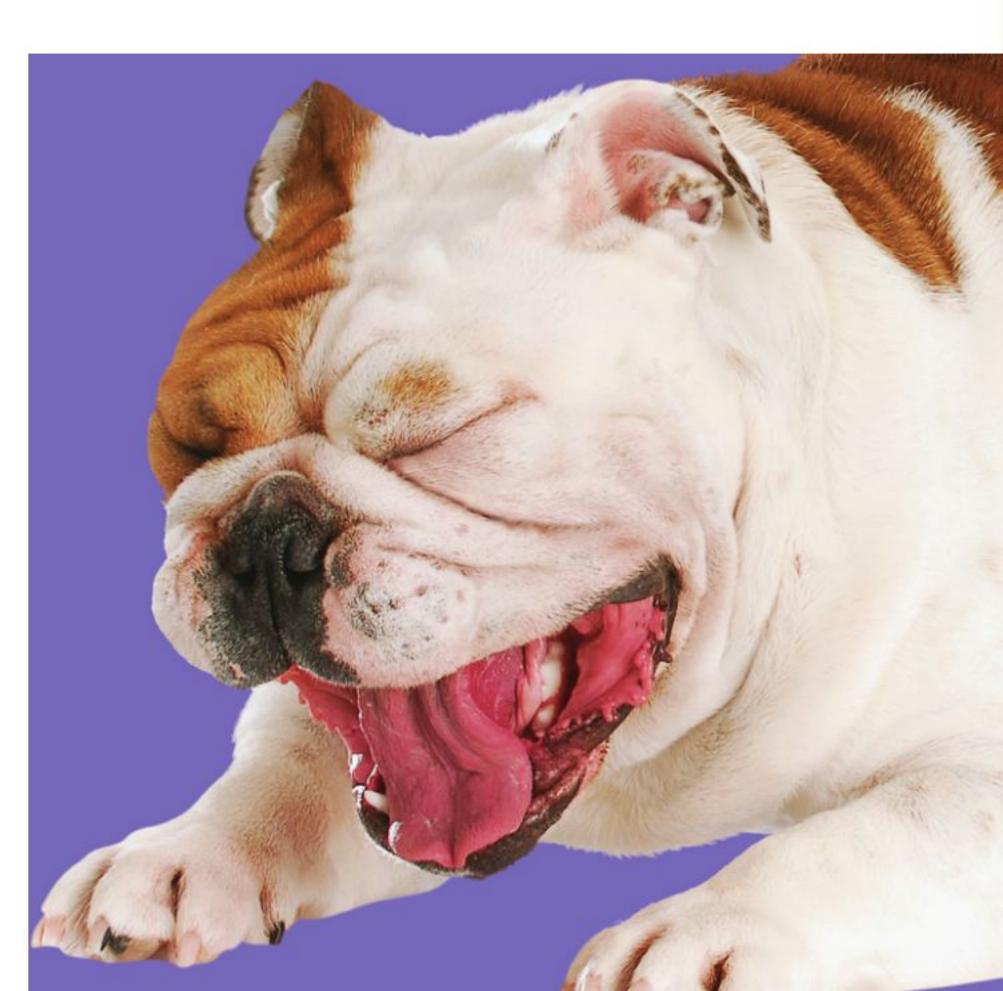












### Seven cool stories about animals' sense of humour...

Do you ever feel like your **dog** is **laughing** at you? Well, research suggests **maybe it is**! When they're inviting another **animal** or **person** to **play**, dogs make **huffing noises**, which scientists think is a kind of **doggy laughter**. They make the same sound when **tossing a toy** around by themselves!

Gorillas, orangutans and rats are among other animals that are known to laugh. But does a chihuahua chuckling mean it has a sense of humour? No one knows for sure, but researchers are working to answer the question. Check out these seven stories and decide for yourself whether animals' antics mean they find things funny...

Can a joke? Enda USA, many called at the back at the b

Can a 1kg ball of fluff play a practical joke? Well, fennec fox keepers at the Endangered Wolf Center in Missouri, USA, think so. They've been tricked many times by a pair of fennec foxes called Fezz and Daisy.

The keepers wear **treat pouches** on the backs of their belts so they can give the animals snacks at the end of the day.

But the foxes don't like waiting.

"Daisy distracts us by doing a play bow," says **Regina Mossotti**, who works with the foxes. "Her front legs go down, her butt lifts in the air and she wags her tail super fast." Then, while the keepers are **distracted** by Daisy, Fezz swoops in and **swipes a pouch**.

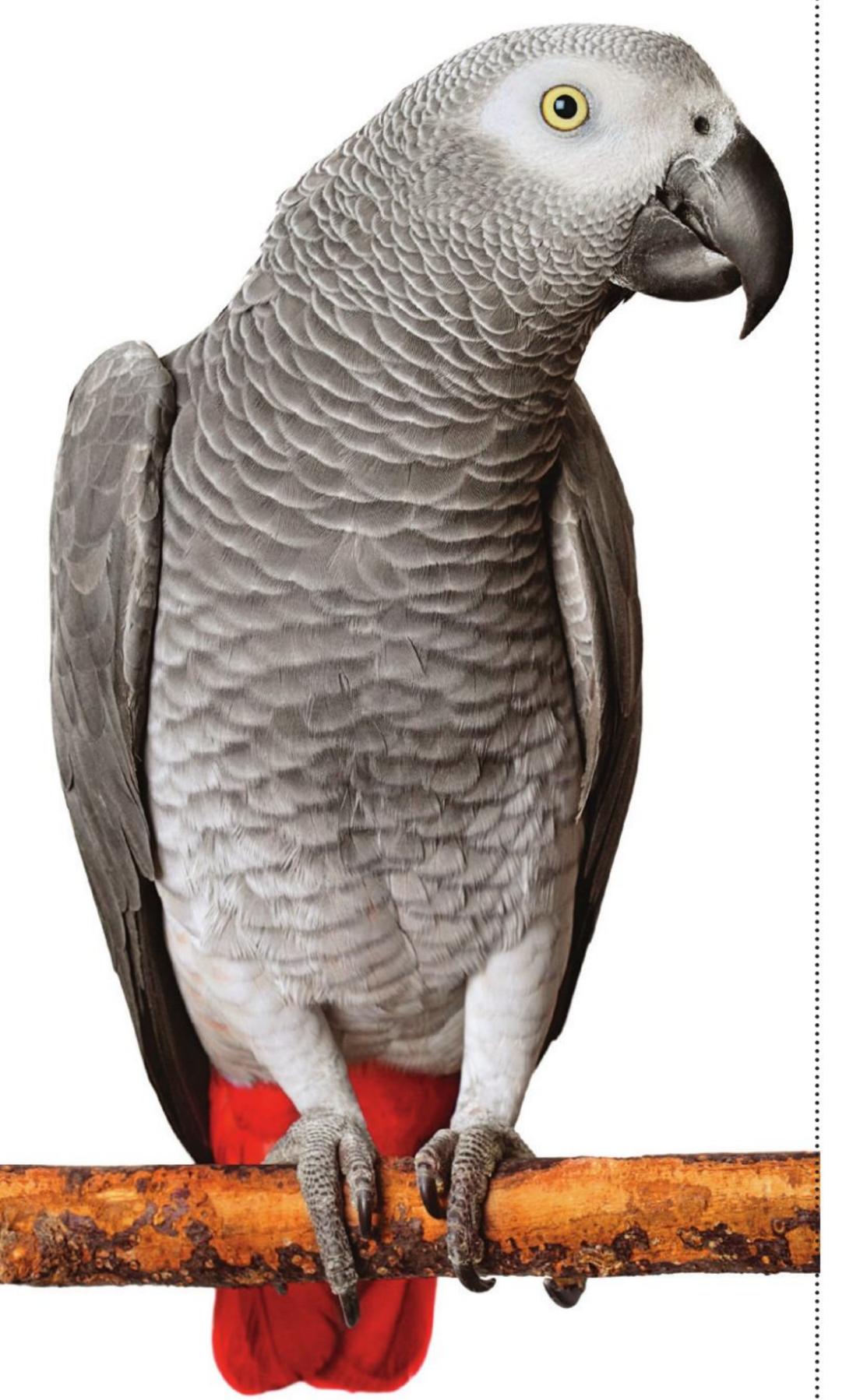
"They've **fooled us** a few times," admits Regina. "Once Fezz gets away, he always turns around and looks like he's grinning – as if to say 'Ha! We got you!" Outfoxed again.



Bongo Marie, an African grey parrot, was always picking on another parrot named Paco. One night, parrot owner and behaviour expert Sally Blanchard was cooking a roast dinner at their home in Colorado, USA. She was about to carve up the cooked chicken, when Bongo Marie hopped onto a worktop nearby and shrieked "Oh no, Paco!" before tossing her head back and laughing!

"That's not Paco," laughed Sally, showing Bongo Marie that Paco was in the next room. "Oh... no," repeated Bongo Marie, this time sounding disappointed before chuckling again.

"I'm convinced she knew she was being funny," Sally says. "It was like she was **laughing at her own joke**."

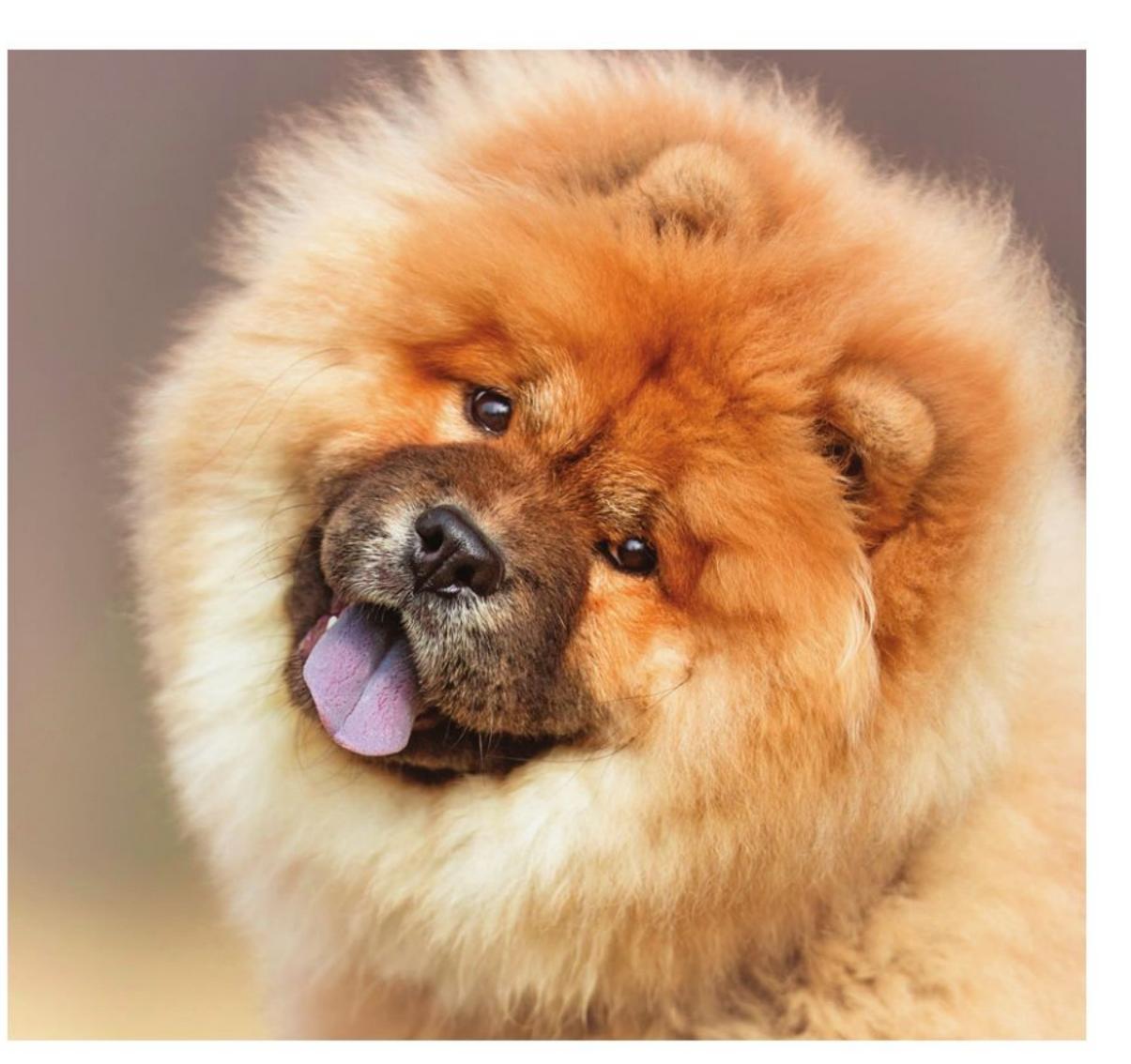




Willie B, a gorilla at Atlanta Zoo in Georgia, USA, was ready for playtime. Thinking he'd enjoy a game of tug-of-war, zookeepers tossed one end of a thick rope into the ape's enclosure and handed the other end to a team of ten men. When the gorilla picked up the line, the men started to pull. But then Willie B stepped on the rope, and the keepers couldn't get him off it, no matter how hard they tugged.

"Gorillas don't like to make eye contact," says **Terry Maple**, a **psychology professor** who was working at the zoo, "so Willie B was glancing away from the men." Thinking the ape **was no longer paying attention**, the **straining humans** relaxed. Which was when Willie B **lifted his foot** and **yanked the rope**, causing the keepers to **skid** and **fall into a heap**. "He looked like he was **laughing**," Terry says. Gorilla, one, humans, nil!





Jean Donaldson's yoga exercises weren't as relaxing as she'd have liked – they were always interrupted by her pooch, Buffy the chow chow! The cheeky dog would wait until Jean was holding her body in a tricky twist, then place rubber toys on Jean's shoulders and crossed legs!

"Buffy would arrange her toys on me every time I did yoga, and then waggle her rear end excitedly," Jean explains. "And when they fell off, she would pounce, grab the fallen toys with her teeth, and carefully place them back on my body. She thought it was hilarious! If Buffy were a person, I think she'd have probably drawn a moustache on my photo."



Deliberately hassling a grizzly bear would be too risky for most animals. But not for a pack of grey wolves resting in a meadow in Yellowstone National Park in Montana, USA.

When a bear lumbered into the area, the wolves formed a circle around the animal. Two wolves distracted the bear from the front, while another sneaked around behind him.

"The third wolf darted in and nipped the bear in the rear end," says wolf researcher Rick McIntyre, who works in the park. "Then the wolves ran away. We think they did that just for fun, to see if they could."

Wolves can control the force of their bite, and this nip was no more than a pinch. Still, considering it was several wolves against one bear, the teasing could've lasted all day. But it didn't. Why not? The bear sat down – apparently he refused to be the butt of the joke!



Can great apes be funny? "Definitely," says Rob Shumaker, president of Indianapolis Zoo in Indiana, USA.

At a zoo where he used to work, Rob was hosing down the orangutan enclosure on a hot day when Junior, an adult male orangutan, started begging for a drink. The ape was sitting on a platform higher than Rob's hose could reach, so the scientist flicked some drops towards the ape. Delighted, Junior laughed out loud. A long, playful water fight followed.

When Rob ended the game, Junior appeared to settle down. But he was actually just waiting. A huge puddle of water had collected on his platform, and when Rob came to say goodbye to the orangutan, the laughing ape swept his arm through the water, drenching the scientist. "He totally got me!" Rob says.





the **Smithsonian's** National Zoo in Washington, D.C., USA,

that! A resident of

Ambika used to eat next to a younger elephant named

Shanthi. Both received a daily ration of apples, carrots, and sweet potatoes. "One day, Ambika pushed her apples over to Shanthi," says Marie Galloway, the zoo's elephant manager. A kind gesture, right? Shanthi thought so. She took the apples and gave Ambika her carrots in return. Little did Shanthi know that Ambika's motives weren't so pure.

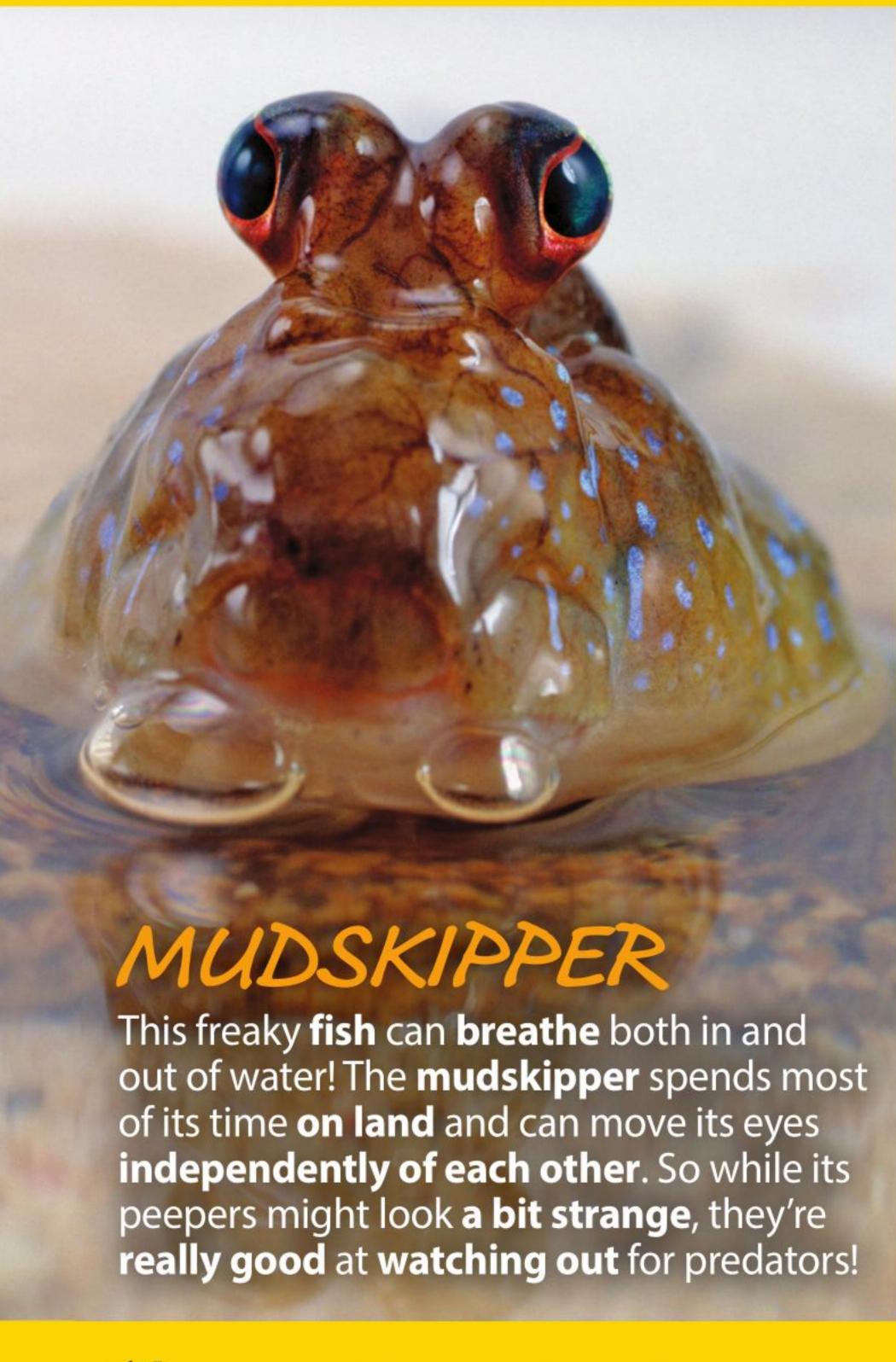
By trading a few times, Ambika lulled Shanthi into **trusting her**. Then one morning the unsuspecting Shanthi reached for Ambika's apples and... Ambika kicked her! Shanthi wasn't hurt – but the joke was on her. "Ambika set her up," Marie laughs. How rude!

### FUNY-LOOKING CREATURE FEATURES

Some animals clown around while others, well, look like clowns! But often these peculiar characteristics play important roles in a critter's survival...











### FENNEC FOX

Measuring up to half the size of its body, a fennec fox's huge ears are super sensitive and help it hear tasty rodents and reptiles moving under the Sahara Desert sand. Yum!





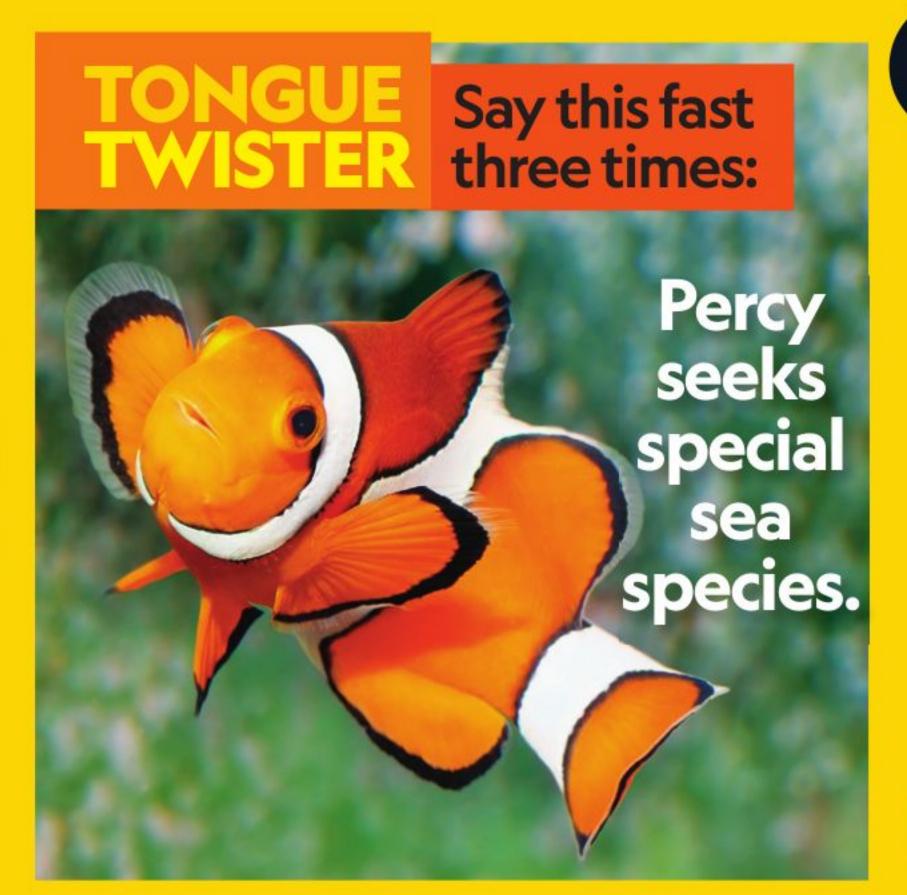
### YETI CRAB

Looking like a crazy crustacean version of the Abominable Snowman, the **yeti crab** lives near hydrothermal vents – areas where hot water gushes up from the ocean floor. The crabs wave their hairy arms near the vents to capture **scrummy** bacteria to scoff!



# AMMAL LOLZ

Get a quick giggle with these critter-themed jokes, tongue twisters and riddles...



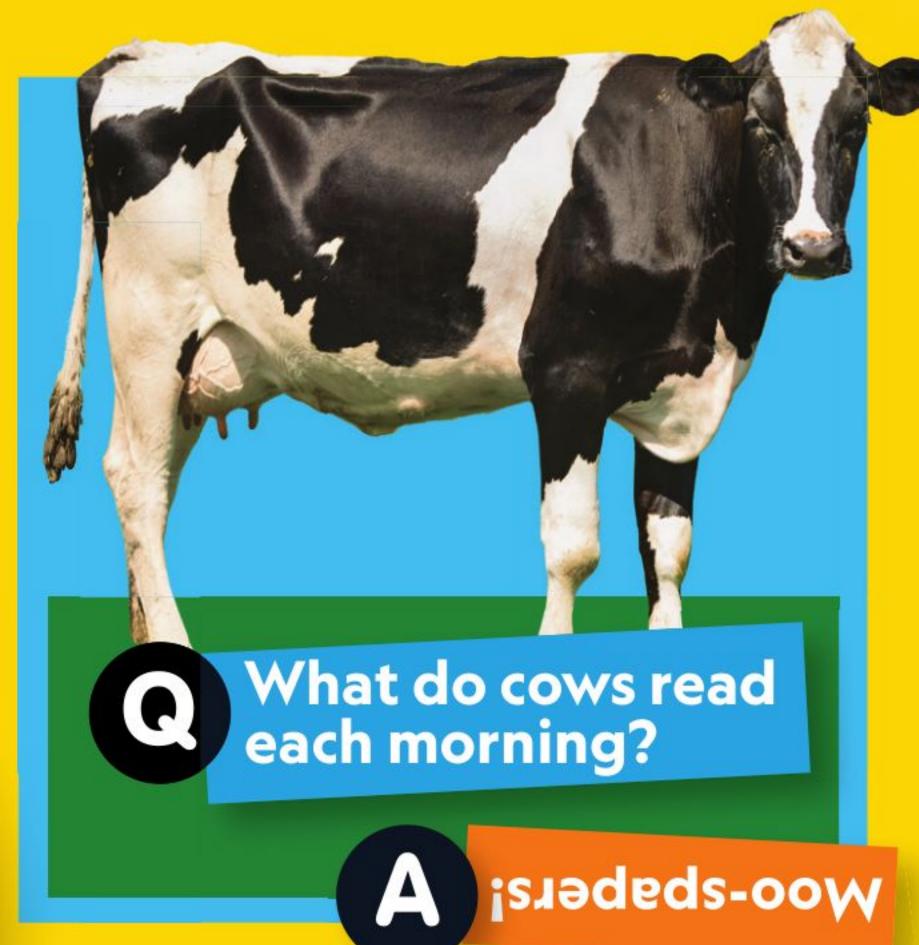


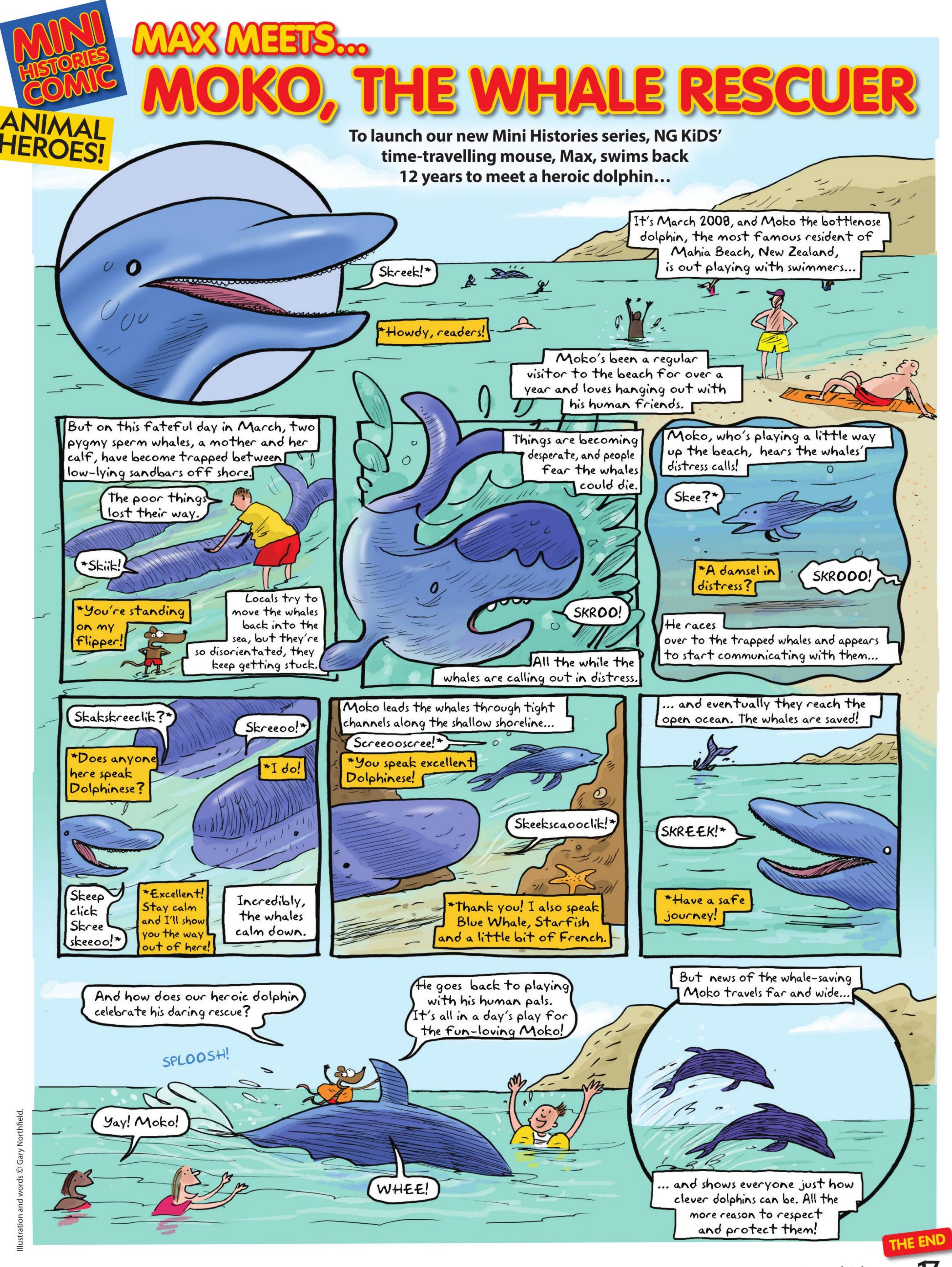












Australia's favourite science broadcaster and author Dr Karl has been answering kids' questions for decades. So we wanted to ask HIM some of our own!



### Hi Dr Karl! Congratulations on winning the 2019 UNESCO Prize for Science **Communication! How did you celebrate?**

I visited a lovely spa in Budapest, the capital of **Hungary** (where the prize was awarded). It was bizarre to realise that various folk (Goths, Mongols, Romans etc) had been bathing in the same spa for thousands of years. Mind you, in Australia, we have the oldest known human structures – the fish traps on the river in **Brewarrina** were built some 45,000 years ago.

Wow! You haven't always been a science communicator. Can you tell us some of the more unusual jobs you've done?

I've tested four-wheel-drive vehicles through **15** of Australia's **17 deserts**, spent five years as a taxi driver, been a car mechanic and a roadie for the musician **Bo Diddley** on some of his Australian tours. I've also been a TV weatherman, worked as a **hospital scientific officer**, and helped set up Australia's first cable TV network. Among other things!

A varied career, then! When did you first get interested in science?

As soon as I realised there was something in the universe that I didn't understand.

You had a hard time at school. Can you tell us about how you overcame that?

I was bullied at school for being a refugee. But I found a whole friendly universe in the Wollongong Public Library. Libraries are the best! Are you a real medical doctor?!

Yep. I was a junior hospital doctor at the Sydney Kids' Hospital. But now the only medicine I do is on aeroplanes, when cabin crew ask" Is there a medical doctor on board?"That happens about once per year!





Ha ha! Your enthusiasm for science is really infectious! What are you researching at the moment that's blowing your mind?

There are lots of things... why some people cannot burp. And how the bacteria in the gut can change if you're a marathon runner to help you run longer. Scientists have also found a sea creature that grows an anus every time it wants to poo! Whoa! What's the weirdest question a

kid has ever asked you?! How much water does a whale swallow when it filter **feeds**? It took me several hours to find the relevant research, but a Dr Karl once

tried to make

machine! Sadly.

it failed.

60-tonne fin whale can swallow a whopping 70 tonnes of water, just to get 10kg of krill. That action more than doubles its weight!

Science is

another word

for 'sense of

curiosity'

You know so much stuff, you're like a human encyclopaedia. How on earth do you remember it all?!

Well, I had 16 years of university education (for free, because back then, the Australian government saw education as a worthwhile investment in the future). read lots of scientific, medical and trade

journals every year. (It's surprising how much I've learned from Australian Potato.) And I write about 3-4 new stories every week. The human brain is wired up to remember stories. Each one takes 5-10 hours to write. If I read something, it will just fade away. But if I have to work and turn it into a story, I can remember it.

Clever! You have a condition called prosopagnosia which means you

don't recognise faces very well. How do you deal with that?!

With brutal **honesty** – I tell people that I can't recognise their faces. I sometimes write down their **names** and **locations** in an office, or remember how they **walk**. You're also famous for your snazzy shirts. Can you tell us about them?

My wife makes my shirts. It takes her about three hours to make them. Each one has long sleeves, is made from cotton, and has two pockets. Why can't we all enjoy wearing bright colours?

We agree! You're an inventor, too! What have you invented?

I designed and built a machine to detect electrical signals from the human retina, to help diagnose an anti-gravity certain eye diseases. It took me one year to think about it, and one year to build it [see pic below].

> You've won an award for your research into belly button lint! Why is it almost always blue?!

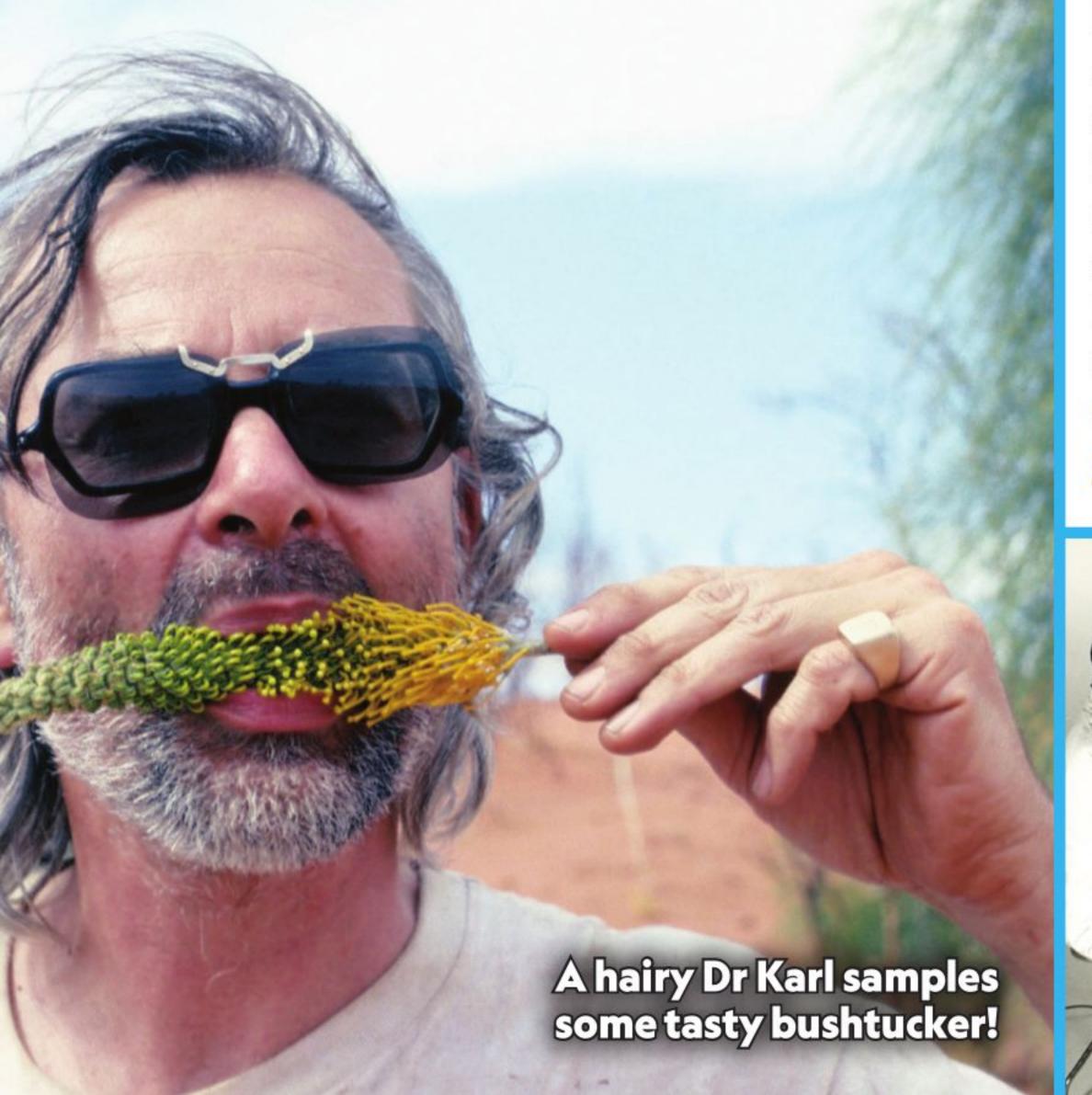
It's blue because the average colour of people's clothing is blue. Belly button lint is a mixture of fibres from your clothing, held together by your dead skin cells. If you wear only red clothing (including socks and underwear) then your belly button lint will be red.

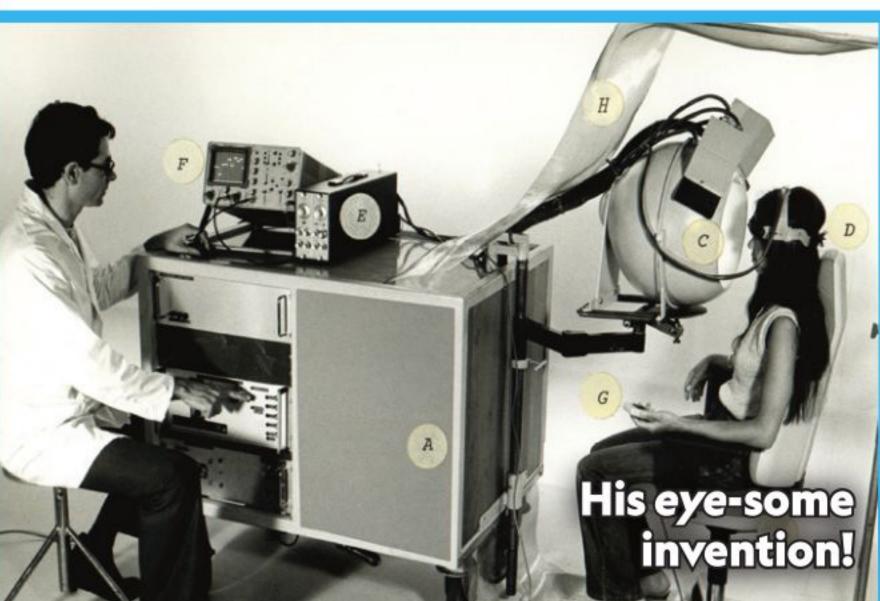
What's been the best moment of your life so far?

Getting married with my kids present inside the Arctic Circle on the longest day of the year was wonderful. The Sun didn't set that day and I hope the love will never set on our marriage! That, and being at the birth of my kids, and being the photographer at my daughter's wedding. Nice! Finally, are there any cool science events for kids to look out for in 2020?

Yes! **NASA** and **ESA** (European Space Agency) will collaborate to slam a spacecraft into an asteroid to see how much the orbit of the asteroid will be changed (the DART Mission). That should be very exciting!

We'll look out for it! Thanks Dr Karl!





## WHAT IS AVAXHOME?

### 

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# SCIENCE FALS

Nat Geo explorers spill their most embarrassing moments...



Even **scientists** goof up sometimes!
These **Nat Geo explorers** share some of their wildest slip-ups and hardest fails.

### SNEAKY MONKEYS

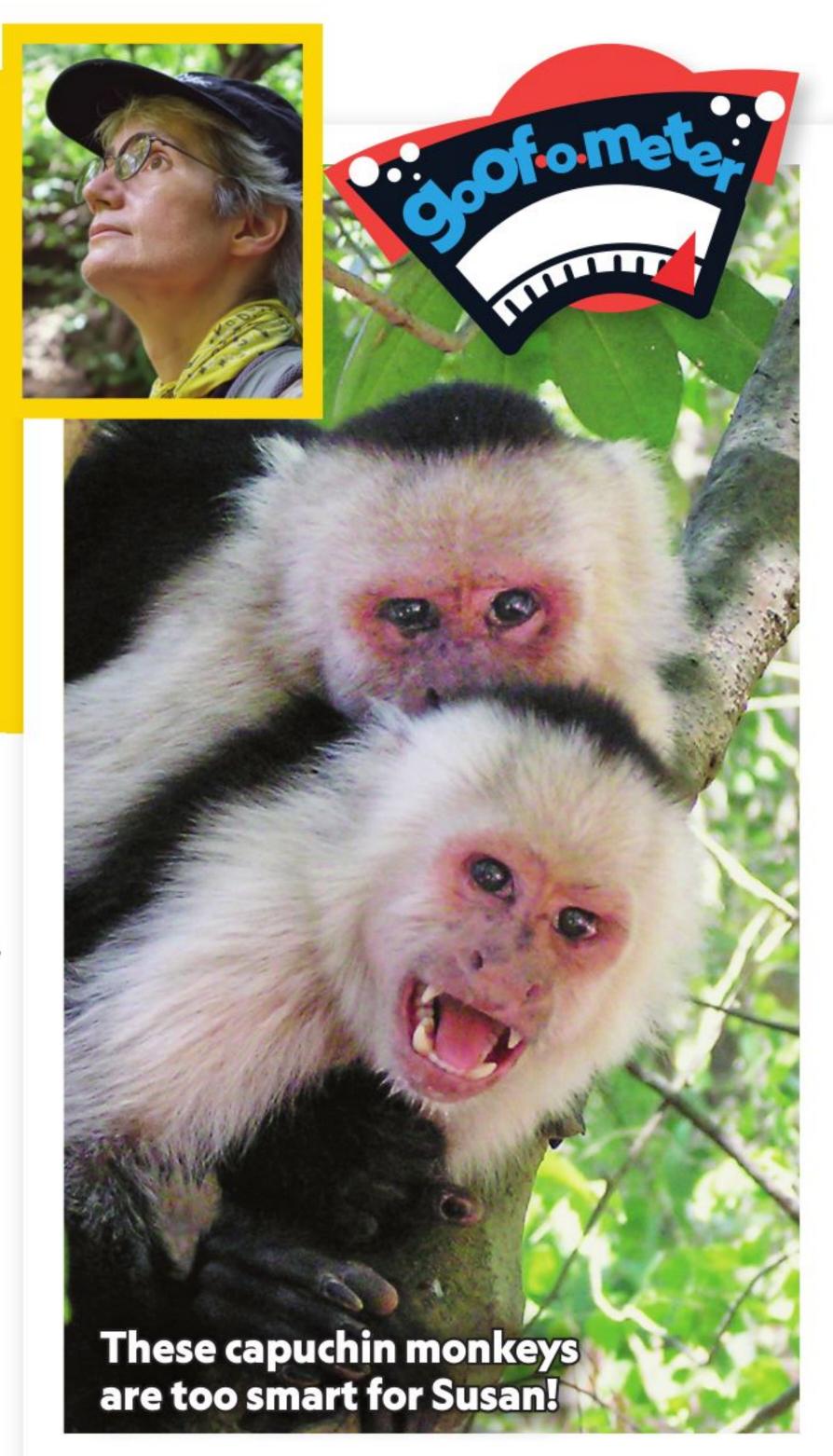
THE SCIENTIST:
Susan Perry
COOL JOB:
Anthropologist
THE LOCATION:
Costa Rica,
Central America

"I needed to get hair samples from some wild capuchin monkeys without getting too close. I thought I had a great idea – put transparent double-sided sticky tape on the shells of eggs, one of their favourite treats, so their hair would stick to the tape when they cracked open the shells.

"My team and I put the sticky eggs on the forest

floor and waited. The **21 monkeys** were excited when they first saw the hard-boiled eggs, but when they got closer, they realised **something wasn't right**. They made 'threat faces' at the eggs as they gently poked them and were careful to not touch the tape.

"Then they slowly **cracked** the eggs, **picked off the shells** and **ate each one** – **without** ever touching the tape! The monkeys had completely outsmarted me, so I had to find another way to gather the info I needed – **picking up monkey poop**."





Using satellite

technology, Jamal tracks

a tagged manatee

### MANATEE MADNESS

THE SCIENTIST:
Jamal Galves
COOL JOB: Conservation
biologist and Nat Geo
Photo Ark EDGE Fellow
THE LOCATION:
Belize, Central America

"One day we brought a wild manatee aboard our boat to study its health. The 360kg animal started to thrash around, making the check-up really difficult.

"Everyone else jumped into the water to avoid getting thwacked by the powerful manatee, but I hung on to the edge of the boat. I laughed at everyone else because they were soaking wet. The feisty manatee seemed to calm down enough for me to take the measurements, but then it began squirming again, knocking me into the water along with my only dry shirt, hat and sunglasses.

"No matter how well I plan, somehow the manatees never seem to cooperate!"

### SEASICK SCUBA

THE SCIENTIST:
David Gruber
COOL JOB:

Marine biologist
THE LOCATION: The
Bahamas, an island country
in the Atlantic Ocean

"We were on a boat about to dive in search of animals that biofluoresce (meaning their skin absorbs natural light and reflects it as another

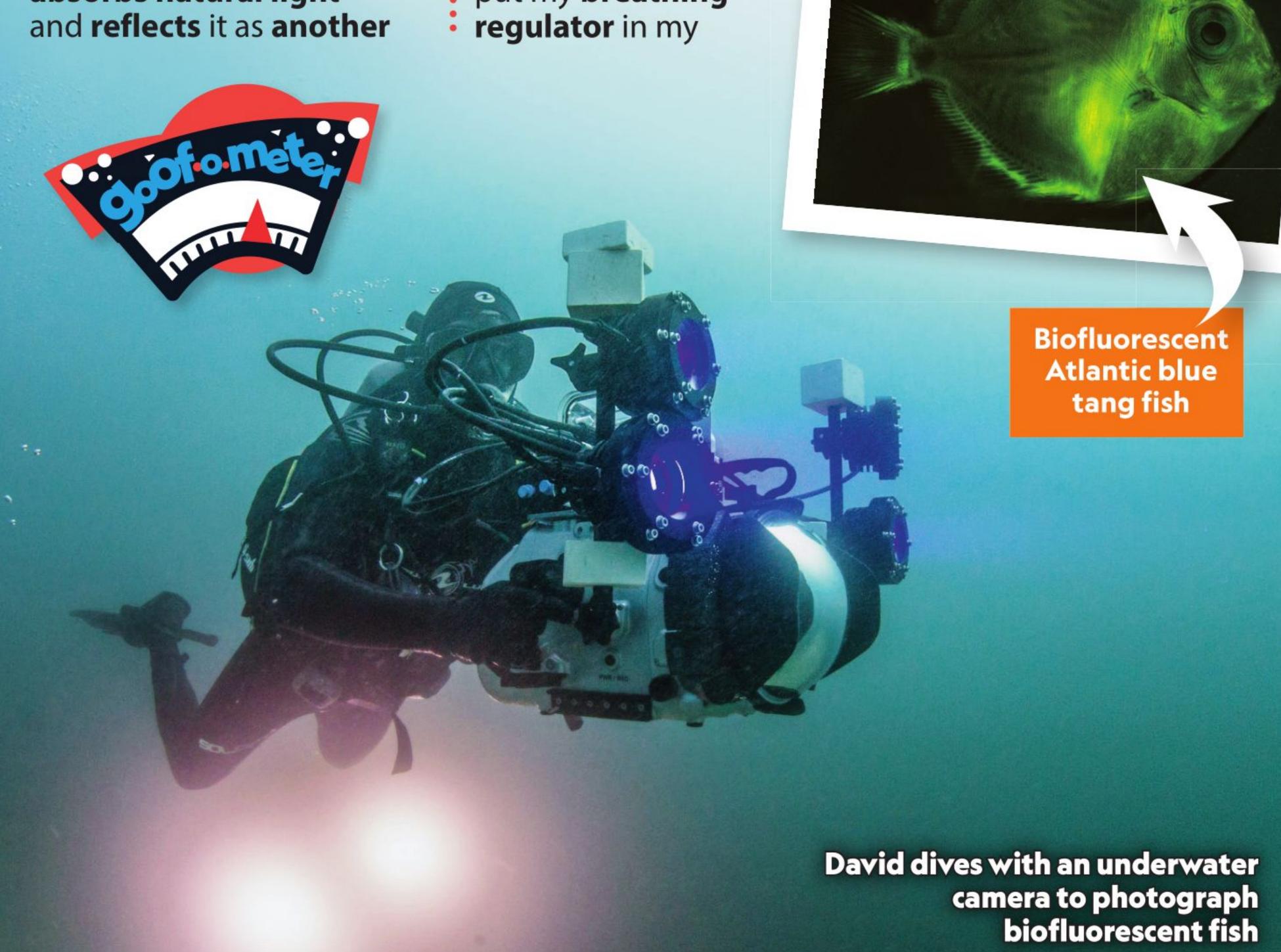
colour). But on that day, 4m-high rolling waves were pushing our boat up and down... and I was feeling

really seasick.

"I couldn't get my scuba gear on, and eventually my fellow scientists got tired of waiting. So they threw me into the water and tossed in my gear and tank right behind me! I quickly put my breathing regulator in my

mouth, and I slipped on my **mask** and **vest** as I sunk down. Thankfully, once I was beneath the waves, I started to feel normal again.

"I'm glad my work pals forced me into action – that day I made a huge discovery... **Atlantic blue tang fish** can biofluoresce!"





THE SCIENTIST:
Danielle N. Lee
COOL JOB: Biologist
THE LOCATION:

Tanzania, Africa

"Giant African pouched rats are special – they can save lives by being trained to sniff out buried explosives and disease-causing bacteria. One day my team and I were studying these 'pouchies,' but I was tired and couldn't find my protective

gloves. I should have known trouble was coming.

"While I stretched the measuring tape between a rat's tail and its nose, the pouchie sunk its **razor-sharp teeth** into my thumb. Usually they bite quickly then run away, but this female wouldn't let go. **Three** other people had to help **open her mouth** and get her off me.

"I learned two important lessons that day – always wear safety equipment, and never do science when you're tired!"



Danielle's research helps



"We wanted to put radio collars on wild ocelots to learn more about their

behaviour. So we placed **bait** in special traps, hoping the food would tempt them to walk in.

"We caught one, but as I excitedly moved to sedate the cat, it pushed open the trap door, knocked me over, and ran off. I tried to chase it, but it was already gone – I'd never catch a sprinting ocelot.

"Feeling defeated, we checked on our other traps, even though it's **extremely rare** to capture two ocelots in one day. But luckily, in one of the last traps was another ocelot! We knew we had to learn from my **overeager mistake**. This time we **calmly** approached the trap from behind and were able to sedate the cat and put the collar around its neck. Phew!"



### 



### FOR THE BIRDS

**Boulders** Beach WHERE Simon's **Town, South Africa** WHY IT'S BIZARRE

You might expect to see **penguins** on an icy coast. But these birds like it **hot!** African penguins splash in the warm waters of this national park next to 540-million-year-old granite boulders.

The world's coolest coastlines offer so much more than sandy shores...



Hidden Beach WHERE Marieta Islands, Mexico WHY IT'S BIZARRE Tucked inside a crater, it's thought this spot was formed in the early 1900s when the Mexican government was testing military weapons on these thenuninhabited islands. It's so secluded you can only reach the beach by first swimming through a 12m-long rock tunnel.



Punaluu Black Sand Beach WHERE Big Island, Hawaii WHY IT'S BIZARRE The jet-black sand on this skinny stretch of beach is made up of tiny bits of hardened lava, produced over centuries by the nearby (and still active) Kilauea volcano. This cool spot is also a popular nesting place for hawksbill and green sea turtles.

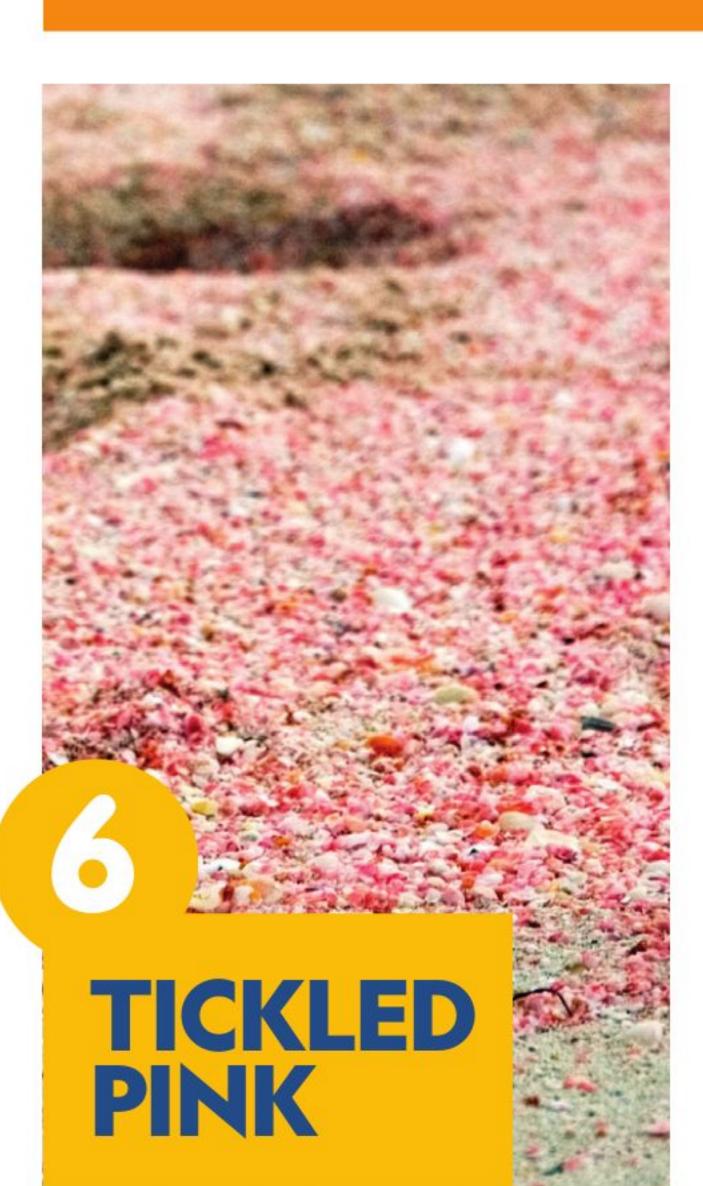




WHAT Zlatni Rat WHERE Bol, Croatia, in Europe WHY IT'S BIZARRE This narrow beach is a real shapeshifter. Its tip – which sticks out as much as 500 metres into the crystal blue water - shifts in different directions as a result of wind, waves and currents.



Bowling Ball Beach WHERE Mendocino County, California, USA WHY T'S BIZARRE Resembling oversize bowling balls, the round stones that line the coast in this state park are known as 'concretions'. They're made when minerals bind to grains of sand before the rest of the sandstone erodes away.

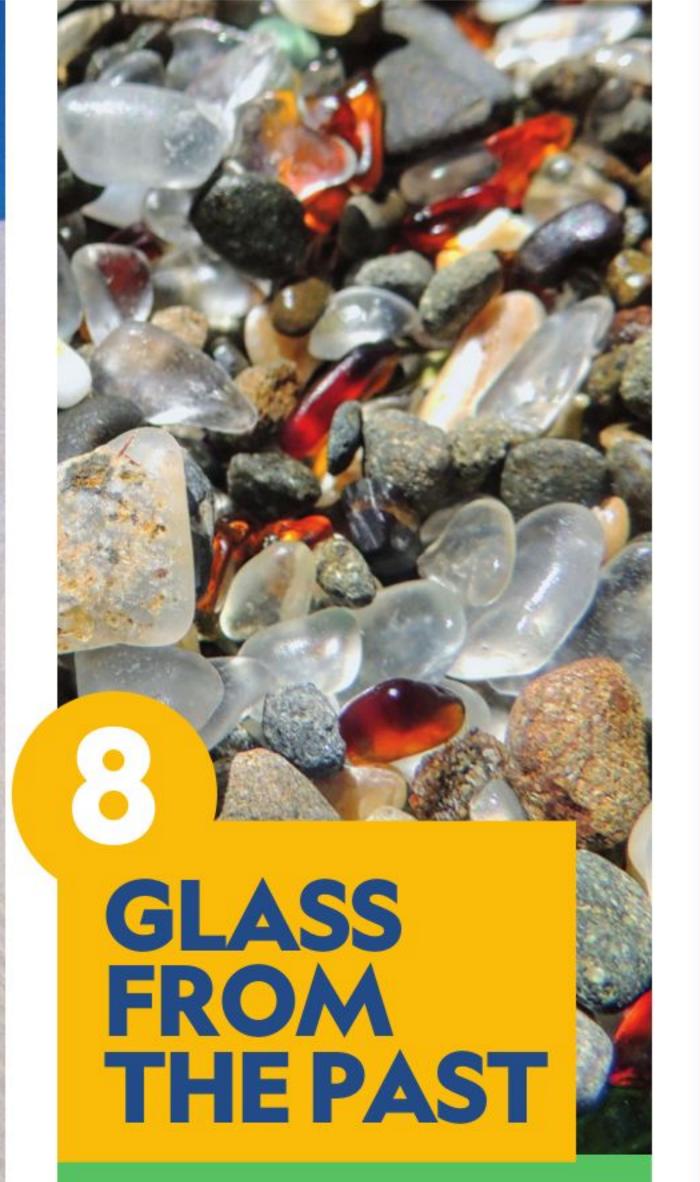


WHAT Pink Sand **Beach WHERE Harbour** Island, Bahamas WHY IT'S BIZARRE

Crushed-up coral, clams, and other small-shelled invertebrates create a grainy, pale pink sand that covers stretches of shore on this island. Pink sand beaches can also be found in **Bermuda**, Indonesia, Crete and the Seychelles Islands in the Indian Ocean.



Genipabu WHERE Natal, Brazil WHY IT'S BIZARRE Somewhere between Brazil's tallest sand dunes you'll find these freshwater lagoons, their deep-blue water a shocking contrast against the bright white peaks. Looking for adventure? You can zipline down one of the dunes into the sparkling water below.



WHAT Glass Beach WHERE Fort Bragg, California, USA WHY IT'S BIZARRE

Decades ago, the water along this beach was a dumping ground for glass bottles and other debris. Now, what was once tossed into the ocean has washed up as a rainbow of shimmering sea glass covering the coves.

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



### The Campsite and the New Pet

One day during the school holidays, Mum was looking on her phone and saw an interesting website about a campsite called MAKE IT FUN!

When Mum told us about it, I tried to convince her that it was a bad idea because I didn't like camping. But she had already booked a caravan, so we needed to go. We started packing straight away.

The next day, we drove to the campsite. When we got there, we checked in at reception and introduced ourselves to the camp director. After we were settled, we did a lot of fun activities. That night, we had a campfire which I really enjoyed, as I got to roast some yummy marshmallows.

But the following day, a whole bunch of wild animals came to the campsite! They ran around wildly and even ate some of the camp food! The camp director led a group of families to calm the animals down. While I was helping out, I saw a cute, adorable wolf howling in sadness next to an extinguished campfire.

I crouched down next to it, and when I patted it gently, the wolf licked me! Then it howled in happiness since it had been lost and was now found and loved by me. The wolf howled to communicate to other animals that it wanted to stay with me. I found his parents. They didn't mind him staying with me, and they said goodbye to him. I named the wolf Hunter.

Hunter adds so much fun to my life. He plays with me every day and enjoys grooving to my favourite music.

### WRITING TIP

What makes a great story opening? Throwing the reader straight into the middle of some action? Interesting dialogue that leaves the reader wanting more? Well, try forgetting it all and writing a boring opening! You'll be surprised how much you know about great openings after all!

### STORY IDEA

Your character has been alive for 400 years. Where have they been? Who have they talked to? What memories do they have?



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!





Check out storyislandproject.org











### FISIORYS GREATEST

Sometimes, we don't always know the exact dates of events. That's why you'll see a 'ca' next to some years listed below. It stands for 'circa,' meaning 'around.'

ALLABOUT

### HARRIET TUBMAN

Meet the woman whose bravery helped hundreds of **African-Americans** gain their freedom from slavery.

ca 1832



### ca 1820

Harriet was born **Amarinta Ross** in Maryland, USA, around 1820. Her parents were both slaves, meaning that Amarinta (or Minty, as she was affectionately known) was set for a harsh life of slavery, too. At the age of just **five**, Minty was hired out as a nursemaid to another family. Her job was to soothe a newborn baby – but if it woke up and cried, Minty would get whipped.

1844 - 1849

Life was hard for young Minty. She was badly mistreated by her 'owners' and suffered some nasty injuries. When she was **12**, during an errand to the shops, she encountered a **runaway slave**. The man's 'overseer' tried to stop him by throwing a **metal object** at him, but it struck Minty on the head instead. She was seriously injured but said her thick hair probably saved her life. Sadly, Minty suffered health **problems** for the rest of her days.

### 1850 - 1860

During her daring escape, Harriet used the **Underground Railroad**. This was the name for a network of **safe-houses** and **secret** routes that was supported by abolitionists (people who wanted the slave trade to end). Harriet went back the following year to **rescue** members of her family. Over the next ten years she returned 19 times to help

more than 300 **slaves** escape using the Underground Railroad. This put Harriet at great risk, as the reward for catching her – dead or alive – was about £1million in today's money.

Minty married in 1844 and took her husband **John**'s surname – **Tubman**. She also changed her first name to **Harriet** – the same as her

mum. In 1849, her 'owner' died and Harriet feared that she would be sold. So, under the cover of darkness, she

fled north to Pennsylvania, where slavery was outlawed. She was finally free!



### 1861 - 1863

Tension was growing between the North of the United States (the Union) – who wanted slavery to end – and the South (the Confederacy) – who didn't. In 1861, the American Civil War broke out. Harriet joined the Union army. She helped out by cooking, washing clothes and nursing casualities. Later she carried out spying missions. In 1863, President Abraham Lincoln issued the **Emancipation Proclamation** – this basically meant that all the slaves being held by the Confederate states were now **legally free**. Hooray!

### 1863 - 1913

Despite the new law, many slaves were still being held captive, so Harriet was put in charge of a special military mission. She guided boats filled with 150 black soldiers down the mine-filled Combahee River in South Carolina. Her troops attacked plantations along the way and rescued over 750 people! The war ended in 1865, but Harriet remained passionate about equal rights until

she passed away in **1913** (fiercely campaigning for women's right to vote, too). She'll always be remembered as the woman who risked her freedom so that other people could achieve theirs.



# AAISCHIE

Yep, 'mischief' really is the name for a group of rats! It's their year, so let's celeb-rat-e them...



Pid you know that 2020 is the Chinese Year of the Rat? The rat is the first of a 12-year cycle of animals that appears in the Chinese Zodiac, so if you were born in 2008, you were born in a rat year, too. Chinese astrologers say that means you'll be a quick thinker, successful – and have a furry head, sharp teeth and black eyes. (OK, we made that last bit up!) But what are these rodents really like? Let's find out if they're gnaw-ty or nice!

### WHOA!

Rat-like mammals lived alongside dinosaurs – and even ate some of the small ones!

Rats'super-strong
teeth never stop
growing! They have to
keep nibbling to wear
them down – or eating
would become
impossible!

Their whiskers are more sensitive than human fingertips!
Rats brush the long hairs against objects or the floor, helping them build up a detailed picture of their environment.

With eyes on either side of their head that can move in opposite directions, rats are even able to see what's happening above them. Very handy for spotting any rat-eating birds!

Rats can hear well, including sounds that are too high-pitched for humans to hear. They may also 'smile' with their ears! When they're happy their ears relax, become droopy and slightly pinker.

Aww!

### RATS ROCK!

Brown rats and black rats scamper over much of our planet. They've stowed away on boats and travelled to almost every country, settling wherever humans live. They often outnumber us and yet we

rarely see them. That's because they're nocturnal, living underground, and are great at staying unseen. So why are there so many of them? It's because they breed so fast. Females have 7-12 babies every

3-4 weeks, which can have babies of their own just three months later! Rats have *gnaw-some* other qualities, too. They're friendly, curious, intelligent enough to train, and 'laugh' when they play!



### Rats can make fun pets!

### Long tails are used for **balance** and to keep themselves cool. They can direct some of their body

heat out through

them!

### COOL!

WOW!

These rodents

can swim

underwater,

holding their

breath for several

minutes!

Rats survived nuclear testing on islands in the **Pacific Ocean!** 

### OOOH, FANCY!

If you were a poor kid in Victorian times, you might have worked as a rat-catcher many children did! Queen Victoria's rat-catcher, Jack Black (who was actually an adult), was the first person to train rats and breed them as pets. Sometimes he'd catch unusually coloured ones. He'd sell them to rich ladies who'd keep them in squirrel cages.

After years of breeding, these domesticated rats became the common household pets that are still sold in pet shops today – known as 'fancy rats'. They make good pets, bond with their owners, and can learn to perform tricks and solve puzzles. Fancy that!

### EWW!

A single rat can leave 25,000 droppings a year!

### LAB RATS

**Domesticated rats** are used in laboratories worldwide for medical research – such as testing the effects of medicines. But many people think that experimenting on animals is cruel and wrong - even if it may save human lives. What do YOU think?

### RAT ATTACK?!

But if rats are so bright and adaptable, why do many people dislike or even fear them? Well, wild rats can carry and spread diseases among humans. They can also destroy farmers' food crops, either by eating them, or contaminating them with their wee and poo! Invasive brown

 and black rats (those introduced into countries by people) may eat plants and hunt local animal species, sometimes to extinction. Rats can also cause serious damage around people's homes, by gnawing on things like wires, wood and even **bricks**. Oh no!



### RARE RODENTS!

These unusual critters certainly stand out from the crowd...

Don't look at me-l'm naked!

Only rodents that belong to the genus (group) known as *Rattus* are true rats. So the ones shown here aren't REALLY rats – despite their names...

### NAKED MOLE-RAT

These may be the weirdest – as well as the wrinkliest – rodents of all! Naked mole-rats live up to ten times longer than regular rats and can go without oxygen for up to 18 minutes without any ill effects. Plus, thanks to a special acid they produce, they rarely get cancer.

Naked mole-rats are almost totally blind, and live in vast underground colonies in the deserts of East Africa. They dig 4-km-long burrows with four huge teeth, which grow outside their mouths – ensuring they don't end up swallowing dirt! These hairless rodents can move their teeth together or work them independently. So cool!

### NORTHERN LUZON GIANT CLOUD RAT

At **77cm long** these rodents aren't quite giants... but they do spend a lot of time in the clouds, living in the upper branches of rainforest trees on the island of **Luzon** in the Philippines. With large hind feet and long claws, these timid rodents are excellent climbers, coming out at night when they feel brave enough to look for food on the forest floor - tender young leaves and berries are their fave snack. Nicknamed cloudrunners, these little cuties have small ears, bushy tails and long, rough fur. Don't they look tree-mendous?!





### AFRICAN GIANT POUCHED RAT

African giant pouched rats are lifesavers! These metre-long mammals (including tail) have been trained to sniff out tuberculosis (TB) – one of our planet's deadliest infectious diseases – in hospitals in Tanzania, Mozambique and Ethiopia in Africa. They use their sensitive noses to sniff the spit samples of patients who may have TB, scratching the floor when they detect the disease! The super sleuths have also been trained to sniff out landmines, helping make towns and villages safe after wars [you can read more about this on page 21].

So why are they called 'pouched' rats? Well, like hamsters, they have handy cheek pouches to fill with food. Often they stuff them with so much grub that they struggle to squeeze into their burrows. Now that's cheeky!



### FIND YOUR BIRTHIZAR

1948, 1960, 1972, 1984, 1996, 2008, 2020

### RAI

### THE REAL THING

It's your year! And as you'll know from the previous pages, rats are highly adaptable and very smart! They can live just about anywhere and eat pretty much anything. Before brown rats leave their underground burrows, they'll send one rat ahead to make sure danger isn't lurking outside. Clever!

### **BORN A RAT?**

You welcome challenges and enjoy learning about new things. Funny and smart, you are generous and will **protect** your pack of friends.





**CELEBRITY MATCH ASH BARTY (1996)** 

1949, 1961, 1973, 1985, 1997, 2009

### THE REAL THING

Oxen have been known to pull loads of about 5,000kg (that's as heavy as an elephant!) and people value their strength. An ox's horns can grow to be more than 50cm long.

### **BORN AN OX?**

You approach projects in a step-by-step manner, wanting to do things right the first time. Shy but dependable, you're caring and trustworthy, and never lose sight of your goals.

1951, 1963, 1975, 1987, 1999, 2011

### RABBIT

### THE REAL THING

Rabbits normally give birth to about six babies at once, and often live in groups. Their long ears help them cool off by lowering the temperature of the **blood** that circulates through them.

### **BORN A RABBIT?**

Well-liked and popular, you have a large circle of family and friends. You are very **protective** of them – and they protect you right back! You tend to keep your cool and avoid conflicts.



1952, 1964, 1976, 1988, 20

### DRAGON

### THE REAL THING

The mythical dragon is a symbol of power and good fortune in Chinese culture. One of the most popular figures in Chinese art, the dragon is believed to be a combination of nine animals, including a frog, a tiger, an eagle and a fish!

### **BORN A DRAGON**

You go out of your way to help your friends, who often seek you out for advice. Your outgoing personality helps you get along with many types of people.



According to Chinese tradition, the year you were born determines your characteristics! Each year of the Chinese zodiac is represented by one of 12 different animals, and legend has it that people born under that animal have certain personality traits. So, just for fun, find your birth year on these four pages and discover what your animal says about you...

Which of the 12 Chinese zodiac animals are you? Find your birth year to reveal all!

1950, 1962, 1974, 1986, 1998, 2010

CELEBRITY MATCH
BINDI IRWIN (1998)



### THE REAL THING

The largest of the big cats, tigers hunt alone. They secretly stalk prey, then leap and attack when the time seems right. But their dinner still manages to escape much of the time!

### **BORN A TIGER?**

You're a natural leader, but often like to do things by yourself (that's how you stay in charge!). You believe in fighting for what's right, even if you think you'll lose in the end.





CELEBRITY MATCH

MALALA YOUSAFZAI (1997)



1953, 1965, 1977, 1989, 2001, 2013

## SNAKE

### THE REAL THING

Snakes have great instincts. Some 'play dead' to fool predators, and most sense prey by detecting ground vibrations. They can take more than an hour to swallow a meal, and become inactive for up to two weeks before shedding their skin.

### **BORN A SNAKE?**

You rely on your **instincts**before asking others their
opinions. At times you want to **take a break** from the action. It's not that
you're lazy – sometimes you just **like to think!** 





Turn the page to see more animals!

## HORSE

### THE REAL THING

Horses sleep for only about three hours a day – but they can sleep standing up as well as lying down! They're intelligent, and most can sense nervousness in people.

### **BORN A HORSE?**

You have loads of energy and love adventure.
You take charge and understand people, so you know how to work a crowd!



CELEBRITY MATCH

JENNIFER
LAWRENCE (1990)



## SHEEP

### THE REAL THING

Sheep are **timid** animals, and graze in **flocks** to guard against predators. Most sheep are raised for their **wool**.

### **BORN A SHEEP?**

You're at your best when people who admire you flock to your side.
A loyal person, you stick by your friends.
You're artistic, creative, and like to look good!



CELEBRITY MATCH ED SHEERAN (1991)

1957, 1969, 1981, 1993, 2005, 2017

ROSTER

### THE REAL THING

The rooster's loud cock-a-doodle-doo attracts females and warns other males to stay away. The red comb on his head may help other roosters identify him, and it also sets him apart from other types of bird.

### **BORN A ROOSTER?**

You are practical and resourceful, and you use what you have to succeed without taking a lot of risks. A hard worker, you say what's on your mind and have a sense of style that sets you apart.



CELEBRITY MATCH BEYONCÉ (1981)



1958, 1970, 19

### THE REAL THING

A dog's hearing is so sensitive it can hear the quietest of high-pitched sounds, which us humans could never detect! Their strong sense of smell helps them do clever things, like find lost people or sniff out criminals!

### BORN A DOG?

You're a great listener who can keep a secret. Loyal to your friends, you have a keen sense of right and wrong and stick to what you believe in.

79, 1991, 2003, 2015



1956, 1968, 1980, 1992, 2004, 2016





babies. Aw!

in life!

1947, 1959, 1971, 1983, 1995, 2007, 2019



# JUN OR

Hi, NG KiDS!

I visited the veterinary clinic at the University of Sydney for a tour. The clinic has two wings to separate the dogs and cats, otherwise the place would be very noisy. I met lots of cute cats and dogs and was lucky enough to see the nurses putting a dog to sleep to get ready for surgery.

The most exciting part was the room where students practise operating on fake animals before they do the real thing! First, I got to feed a tablet to a fake cat to learn how to get it right down the throat. Then I got to reach into the **butt** of a model cow to feel what's inside it! That's to determine how heavily

pregnant the cow is. It was an extraordinary day! Amelia, 9

Wow, what an informative day out, Amelia! Did you know it takes 5-7 years to train to be a vet?





POSTCARD FROM...





POETRY CORNER

I wrote a poem about our amazing firefighters who are working so hard to keep us all safe. I hope you like it. Lucia, 10

Our great Aussie heroes Through great Aussie droughts Through great Aussie floods You've been there through it all You've been through almost everything And you'd have to admit that you've

seen it all You've been risking your life To save the country And all that it contains You will get through this hard time And beat the burning blaze In no time at all The peace will return And we all will agree That our great Aussie firies Will be great Aussie heroes

Top poem, Lucia! We're all so proud of our firies during these tough times.

NATIONAL GEOGRAPHIC

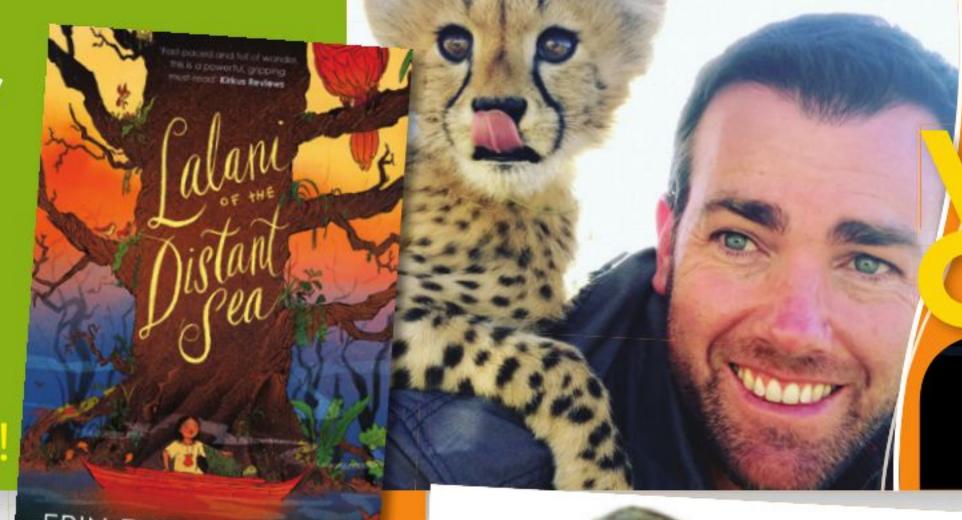
Name: Rusty **Breed:** Cavalier King Charles spaniel, crossed with a poodle Age: Rusty is only 4 months old

Owner: Anai, 10 Loves: His rubber chicken, play-fighting, and playing with Anai and her sisters

**Hates:** Being ignored or left at home. He isn't too keen on the ocean or swimming either!

We want to hear from you! Send in your artwork, jokes, craft pics and pet 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 scoop a copy of Lalani of the Distant Sea, a top new adventure filled with mystical creatures and inspired by Filipino folklore!



with Ben Britton



Hi NG KiDS! My family went to China for five weeks to see wild pandas. We also went to Tibet and saw Mount Everest and the Potala Palace. In Tibet WE saw a lot of animals like wild yaks, Tibetan wild ass, mountain goats

and gazelles. We saw a lot of monasteries, too. It was great!

> Sounds like the trip of a lifetime! Top photos, too!



Dear NG KiDS, I love animals and desperately want to save

endangered species and stop climate change. So I sell teddies to raise money and awareness about the critically endangered Amur leopard. In order to reduce my carbon footprint, I sell second-hand teddies which I repurpose to look new. I sell them at a disability service so people with disabilities can buy teddies for cheap prices going to a good cause. It's a win-win for both people with a disability and Amur leopards. I restock the teddies every week so I can keep earning more money to donate.

Elliott, 11

What an amazing idea Elliott. Great job!

## HORSE IN THE HOUSE!

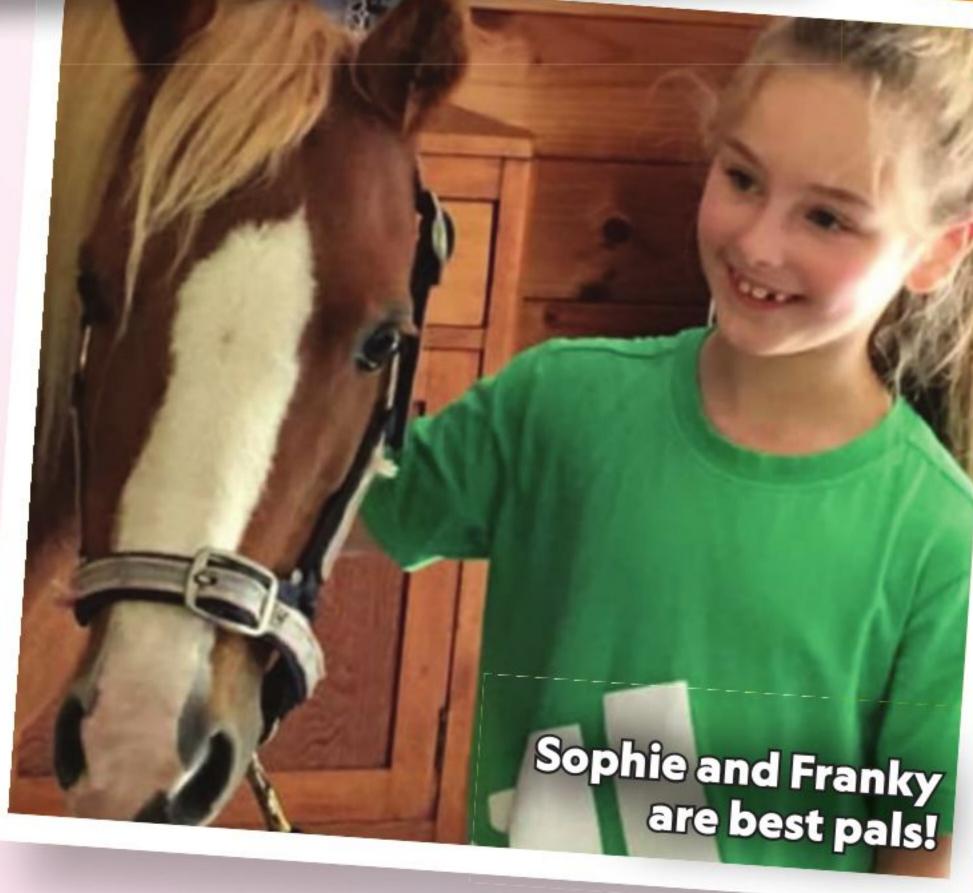
Hi NG KiDS, This is my pony Franky. She's 13 years old. The first time I rode her my mum and dad had to help me. Now I can gallop on her and she loves the **beach**. She's very fast.

Mummy let me bring Franky into the house once while my dad was building a wall outside. She was so good. She just walked in through the kitchen and onto the carpet in the



lounge. Everyone laughed. I've asked if she can come in again and Mum said 'yes'! I love Franky very much. Sophie, 8

Aww, sounds like she's a very special horse, Sophie!



### Where do they live?

Jaguars inhabit swamps, rainforests, grasslands and forests across North, South and Central America. They prefer living near water.

LET'S MEET THE JAGUAR

### What do they eat?

Jaguars eat over 80 different species of birds, mammals and reptiles, including deer, caiman, foxes, anacondas, turtles, monkeys and sloths. They can catch their food on land and in water!

### How do they live?

Jaguars are solitary and 'crepuscular', meaning they're more active at dawn and dusk. When active, they spend their time looking for a mate or hunting for food. They're incredibly athletic, and excellent swimmers, and unlike most other cats enjoy spending time in water.

### Ben's fave fact!

The name Jaguar is derived from the Native American word 'Yaguar', which means 'he who kills with one leap'!

### How big do they grow?

Jaguars are the largest cats in the **Americas** – adult males reach lengths of more than **2.1m** and weigh **56**-96kg. Females are smaller.

Jaguars have

been known to

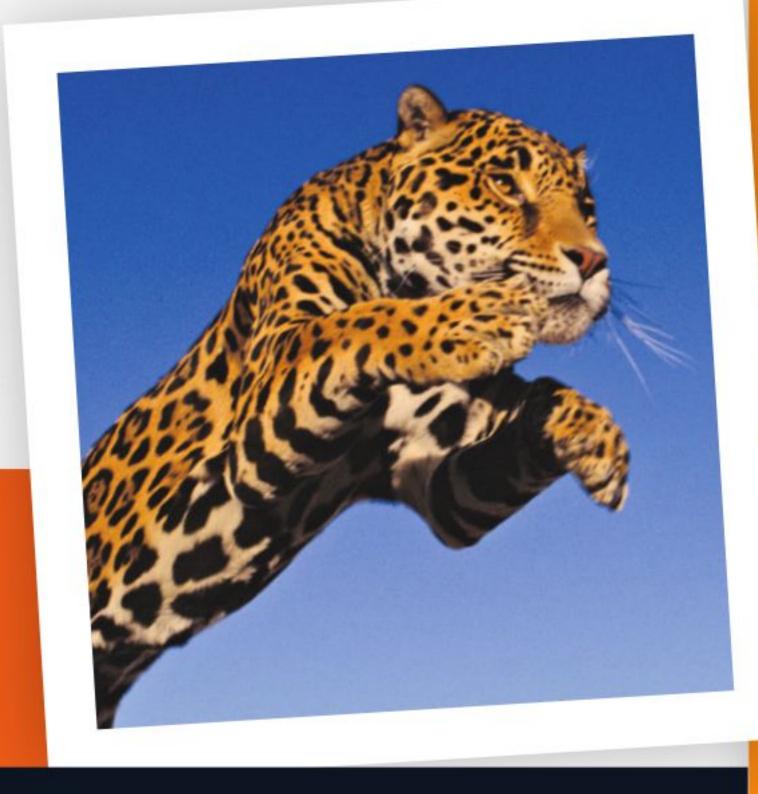
dive into lakes and

rivers to catch

caimans!

### : How do they communicate?

Like most cats, jaguars have a lot of vocalisations, such as roars, grunts and meows. They also communicate with scent, marking their territory by **scratching** and spraying urine on trees, and rubbing the scent glands in their cheeks and necks on branches and logs.



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

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To celebrate the release of this *baa*-rilliant film, the **first 40 new subscribers** this month will scoop an out-of-this world prize pack, featuring a **flying disc** (like a frisbee!), **light-up LU-LA ears** and some **super stickers**. Cool!





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# GAMES, LAUGHS, AND LOTS TO DO!

**Answers** on page

# SPOTTHE DIFFERENCE! Can you find the TEN differences between these summer beach scenes?





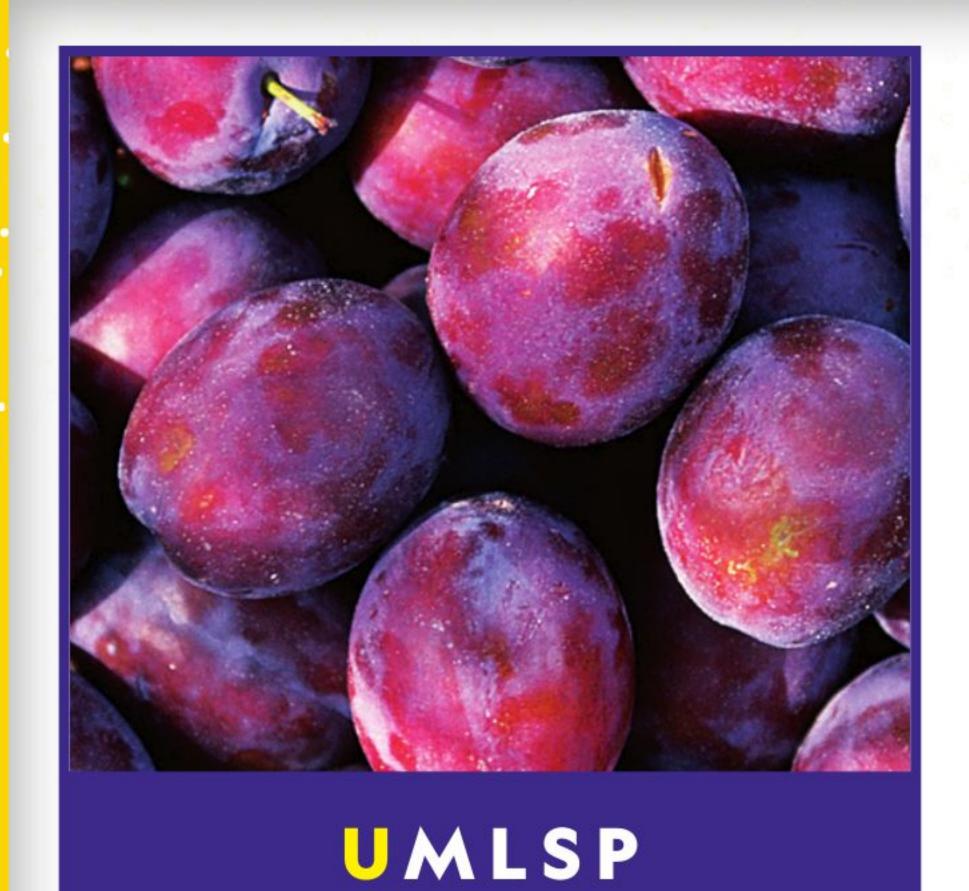
# lop row (Left to right) © Bill Boch / Foodpix / Jupiterimages; Ingram Publishing / Superstock; Darryl Torckler / Getty Images. Middle row (Left to right) © Francisco Cruz / Superstock; Ferenc Cegledi / Shutterstock; Firstlight / Getty Images. Bottom row (Left to right) © William Thomas Cain / Reportage / Getty Images; Wendell Webber / Botanica / Jupiterimages; Lvv / Shutterstock.

# WHATINITHE CONTRACTOR OF THE C

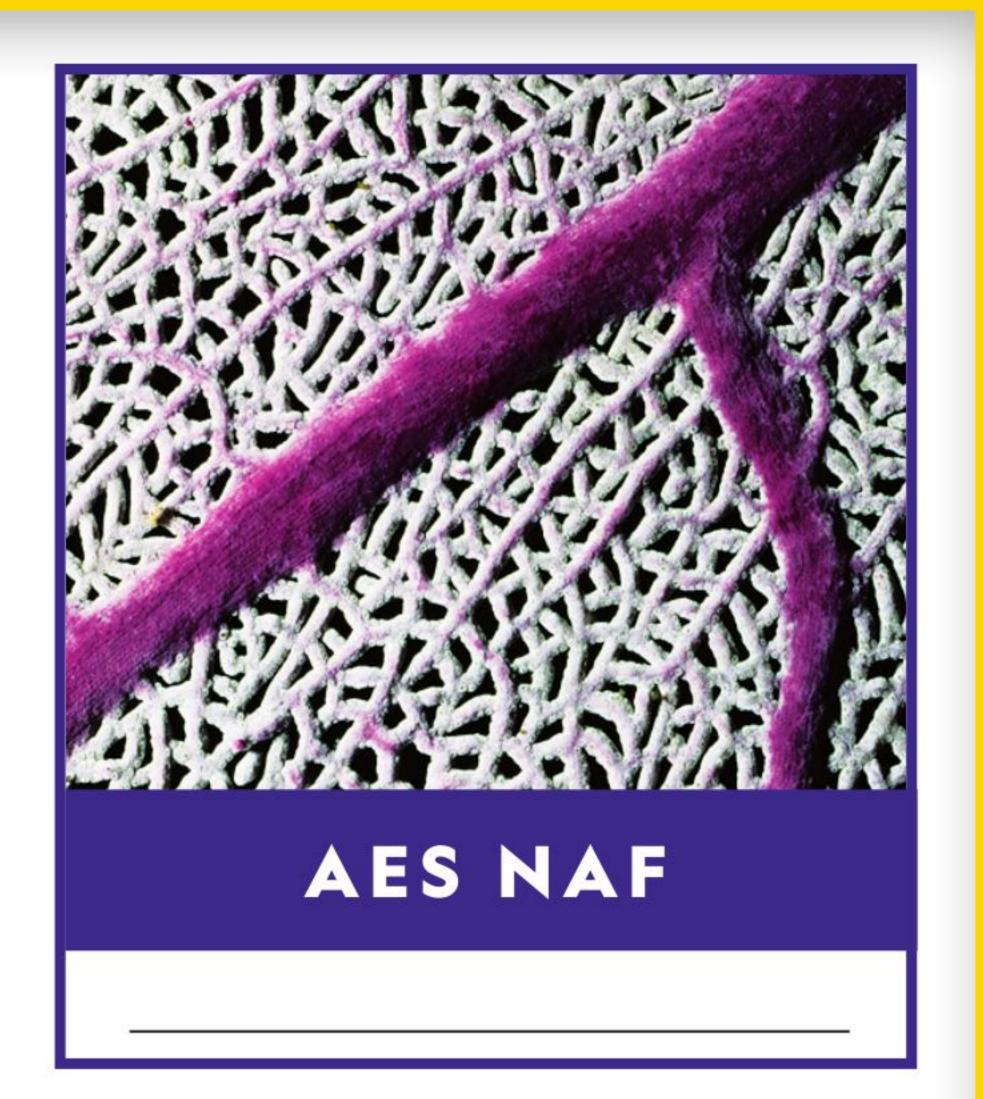
### POSITIVELY PURPLE

These photographs show close-up views of purple objects. Unscramble the letters to identify what's in each picture. Bonus: Use the yellow letters to help you answer the joke below...

**Answers on page 47** 

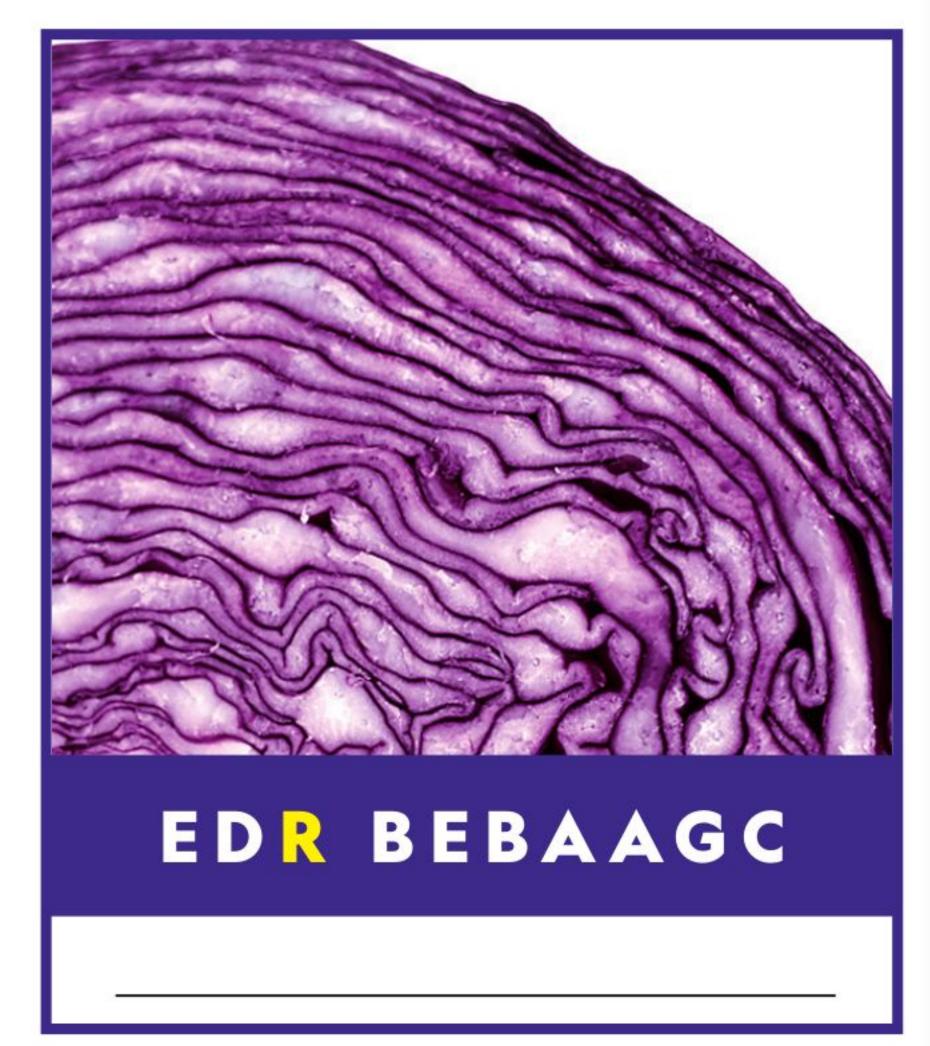


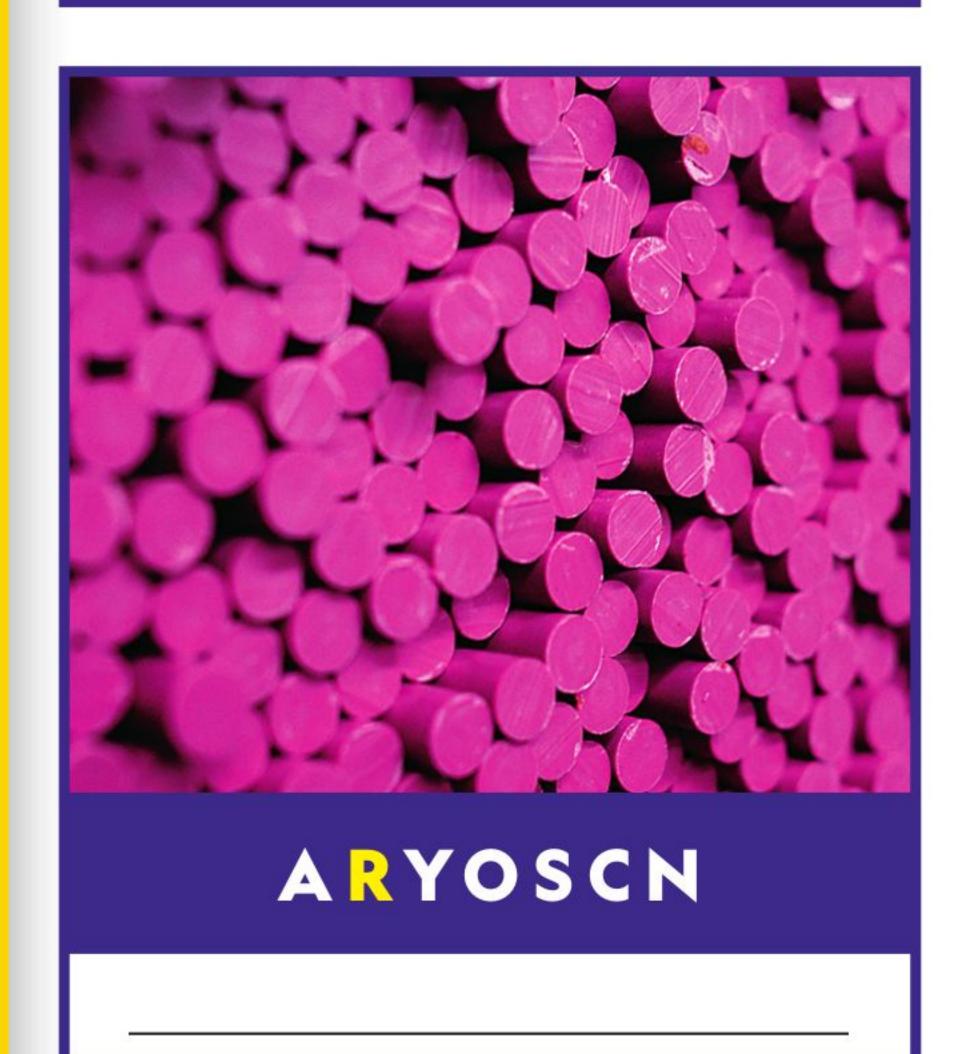




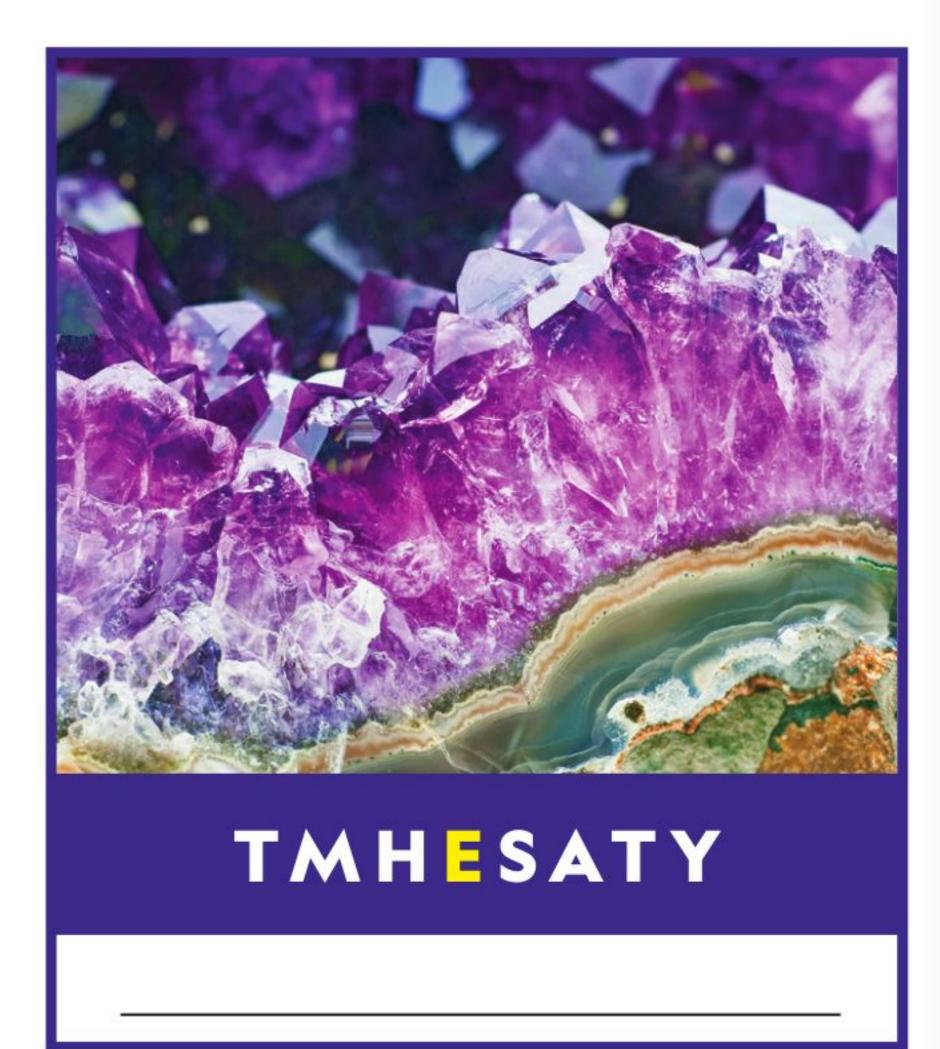












natgeokids.com 43

JOKE: What's a cat's favourite colour?

ANSWER: P P P P



# FIND THE HIDDEN

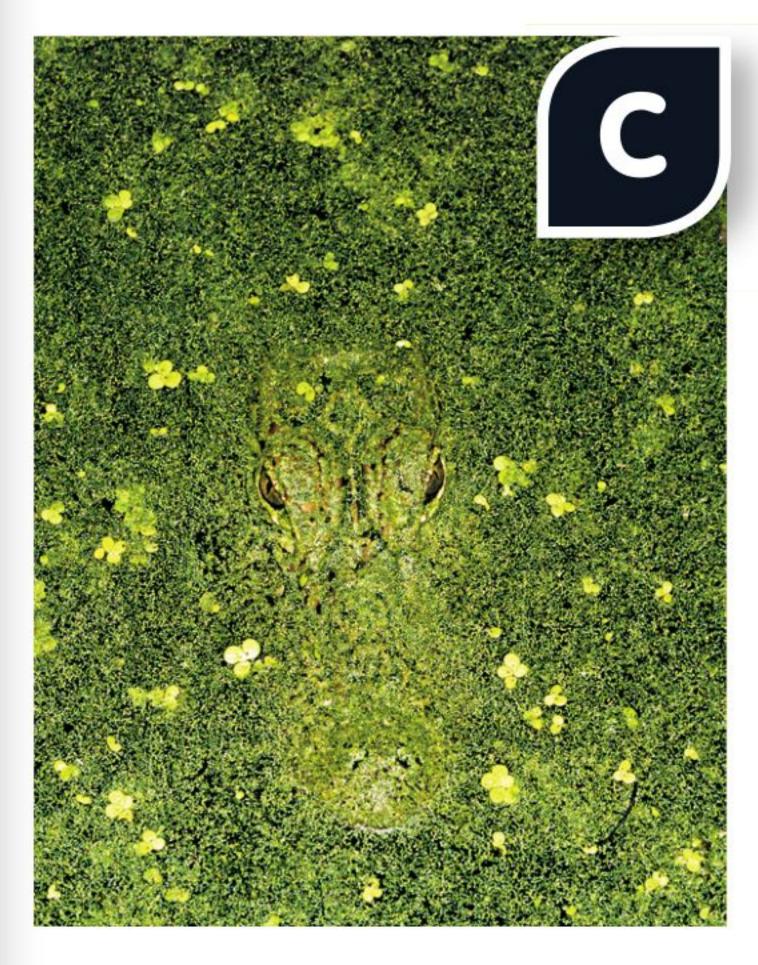
Animals often blend in with their environments for protection. Find each animal listed below in one of the pictures, and then write the letter of the correct photo next to each animal's name.

Answers on page 47

- 1. American alligator
- 2. Gray tree frog
- 3. Eastern screech owl \_\_\_\_\_
- 4. Black-tailed deer \_\_\_\_\_
- 5. Black rhino
- 6. Feather star shrimp \_\_\_













# FUNSIUEF AAKE

## RATTY COKIE

Who says rats aren't sweet? Celebrate Chinese New Year with these yummy little rodents!





Add the egg and vanilla essence and mix everything up.



TOP TIP

If you prefer, try using sunflower seeds for the ears instead of peanuts!



Gradually sieve in the flour and baking soda, and then beat it all together to form a soft dough. Put the dough mix into the fridge for about an hour to make it easier to shape.



Add a couple of bits of raisin for eyes, a bit of cherry (or another raisin) for a nose, and two peanuts for ears. Now poke a hole in the rat's 'bum' using a cocktail stick – this will be for the tail!



### Preheat the oven to 175°C. Meanwhile, roll bits of dough into approx 3cm-wide balls, place on a baking tray, then pinch together one side to form a pointy face.



Bake in the preheated oven for 8-10 minutes. Place cookies on wire racks to cool, and while they're still soft poke in the fruit-roll tails. Enjoy!

# FUN SITUEF

### **BONKERS BEAST** (page 15)

The animal mash-up has a tiger's head, orangutan's body and duck's feet

### SPOT THE DIFFERENCE! (page 42)



### WHAT IN THE WORLD (page 43)

Top row: plums, wool, sea fan. Middle row: shoelace, sea star, red cabbage. Bottom row: crayons, orchid, amethyst. Bonus: Purrple

### FIND THE HIDDEN ANIMALS

(page 45) 1. C, 2. A, 3. F, 4. D, 5. E, 6. B

### **AMAZING EXPLORERS**

(page 44)

NAMSATAZODNEMOM UCSNESDNUMAMPL ODRAKEABNUML OSNKAULDISN RENSAIHIAN Y M E A Y N B O L V D R E S N G A B U O S A A A H O L P G E S M A D A N R U A E R D U O C

### THE LAST LAUGH

Q.When will the tiny snake arrive? A. I'm not sure, but it won't be long!

Q. Why wouldn't the dinosaur wear deodorant? A. It didn't want to be ex-stink!

Q. Why did the lady get fired from her job at the coin factory? A. She stopped making cents!

Q. What kind of match is hard to get out of the box? A. A wrestling match!

Q. Why did the cookie go to hospital? A. Because it felt crummy!

Q. What do you call a millionaire elf? A. Welfy!

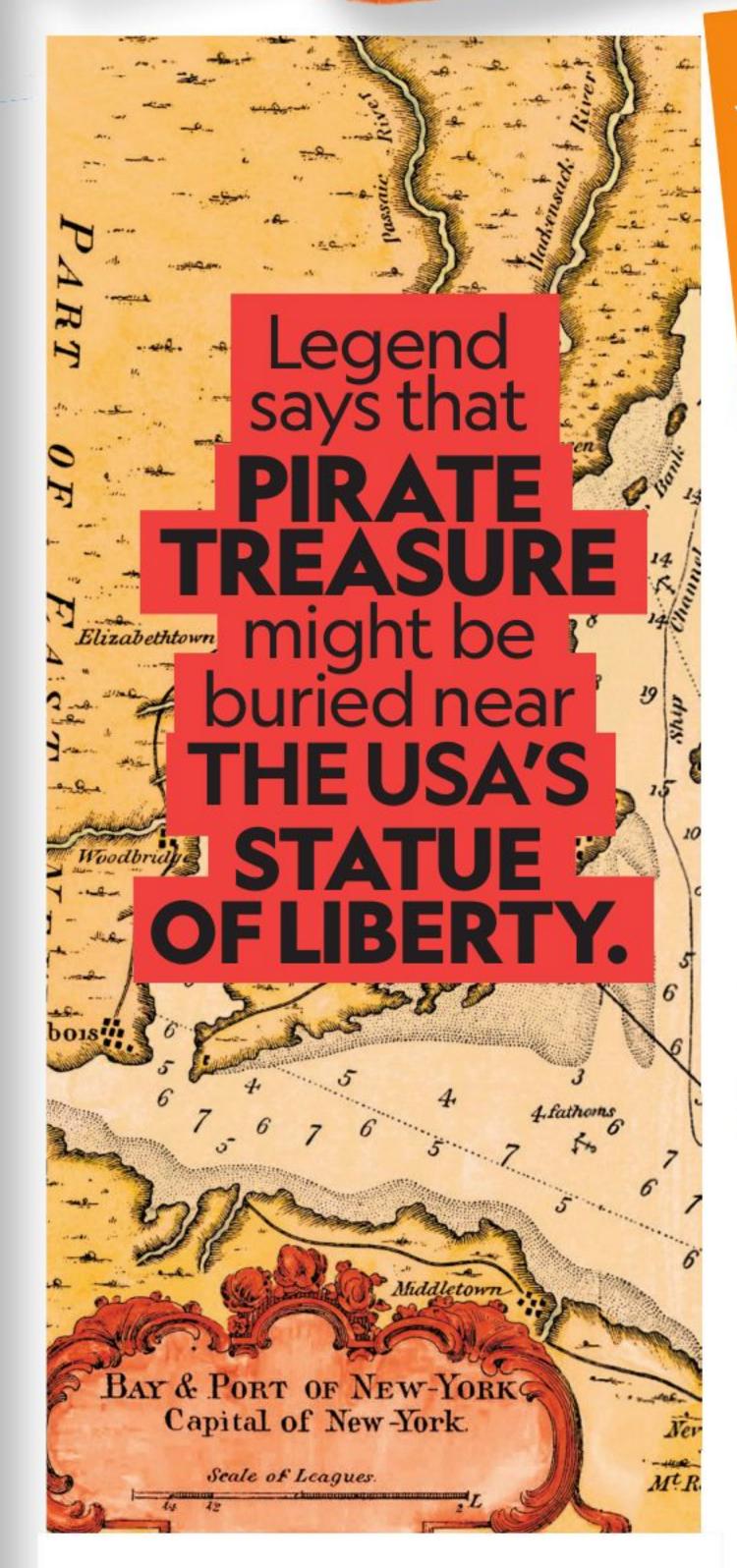
Q. What do you call a load of clever trees? A. A brainforest!

> Q. Why was the broom late? A. It over swept!



Check out these outrageous facts...

An AUSTRIAN ORCHESTRA plays
MUSICAL INSTRUMENTS made from **VEGGIES**.



A DOG may after seeing a HUMAN YAWN.

Oi! My story wasn't that boring!



Australia's CITE LA FLO spends its entire life \_\_\_\_\_UNDERCOUND.

Some experts HONEYBEES all have different PERSONALITIES.



NIGHTIME RAINBOWS

are common at Yosemite. · National Park, in the USA.

DIFFERENT LANGUAGES ARE SPOKEN CHINA.

ABOUT

The Mwanza flat-headed rock agama lizard is nicknamed the

SPIDEREMAN

# GANT MAGON

Santa would need a lot of elves to fill this whopping wagon with presents. At 7.9m long and **3.3m tall**, the *wheelie* big cart, made in Chicago, USA, weighs 6.7 tonnes – making it the world's largest toy wagon. The same weight as 15 grand pianos, it can carry 75 kids, and we're guessing it would need more than nine reindeer to pull it!





gardens instead of eating in the mess hall. The Swaledale ram, called Derby XXX, is the highestranking sheep ever. Promoted to a lance corporal in the British Army back in 2015, Derby XXX served as

the official mascot of the Mercian Regiment. He was even awarded a service medal for his part in a peacekeeping tour in the Middle East. Derby XXX, we salute you.





Buckle up! Stunt driver Terry Grant holds the record for farthest barrel roll in a car, flipping his vehicle **270 degrees** off a ramp to land safely **15m** from where he started. Terry practised the jaw-dropping trick for **six months** before performing in front of an audience at the **ExCeL Centre** in **London**. That's quite a road show!

Check out the planet's strangest pictures...



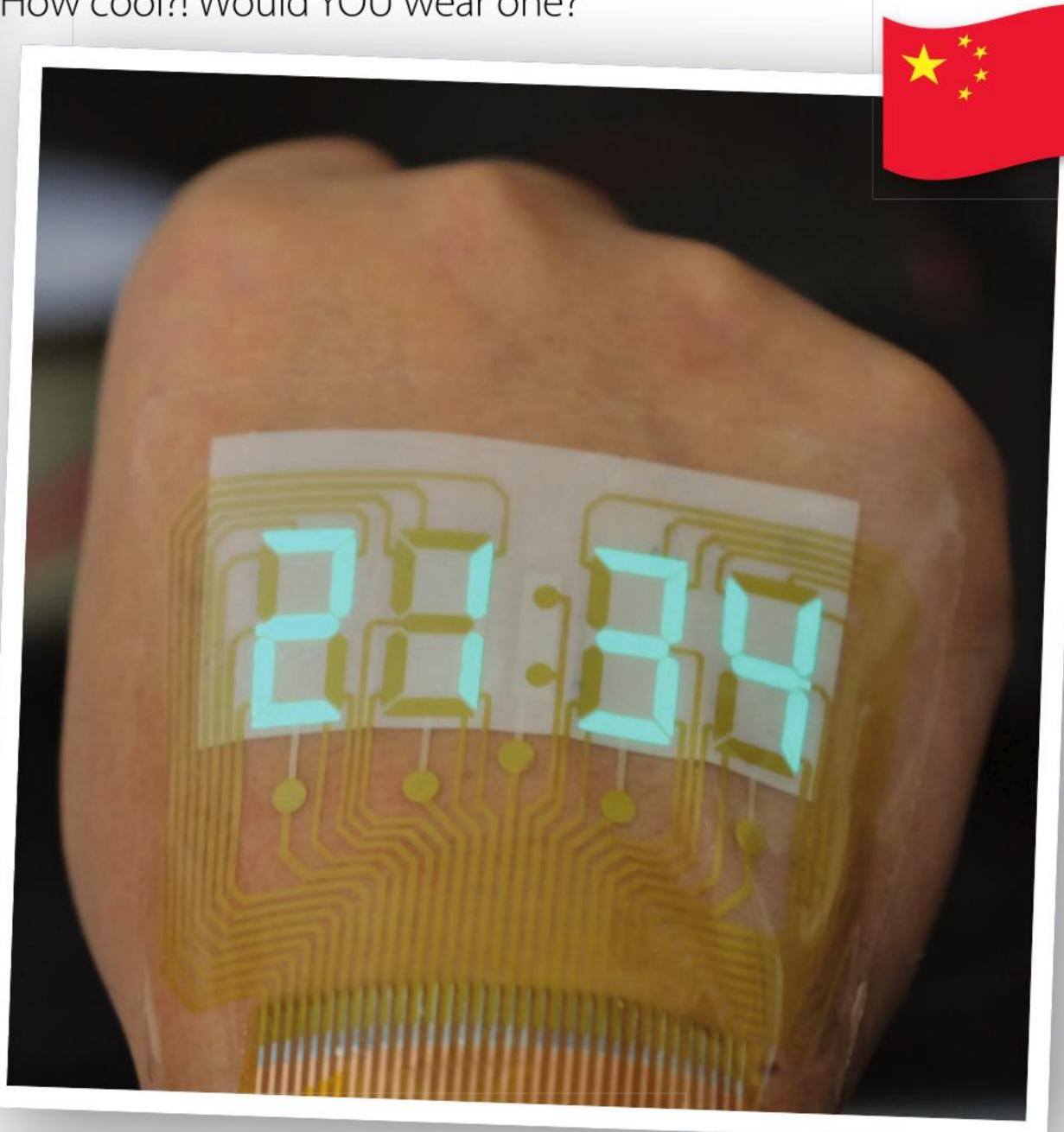
# Turkey for dessert?!

British baker **Sarah Hardy** had **raw turkey for dessert** this Christmas. Well, kind of. She baked a **cake** that *looked* like an **uncooked bird**. Ugh! "It was made as a surprise for my family and it certainly worked!" she says. "I rather like that it's repulsive and attractive." Hmm...

## Skin stopwatch

Scientists in Nanjing, China, have created a stretchable stopwatch that sticks to the skin like a temporary tattoo.

How cool?! Would YOU wear one?







# Inflatable film Stars

These were some of the crazy
movie characters who took
to the skies at the recent
International Balloon Festival
in Leon, Mexico. Which of the
Hollywood hot air balloons is
your fave
flyer?

### CART-ASTROPHE!

People in Medellín, Colombia, had a wheelie fun time in November when they piled onto home-made go-karts and hurtled around the city's steep streets during the

30th Roller Cart Festival.
Hope nobody fell off!



### FANCY PHONE

Wanna get your hands on this mega mobile phone? Well, the modified iPhone 11 Pro is covered in half a kilogram of gold and 137 diamonds

– and will set you back a cool \$104,000. Whoa!

### HEEL-Y SILLY!

Have you ever worn a pair of high heels? Well, these folk in Chongqing, China, were snapped running 100 metres in them. Strewth!



# NATIONAL GEOGRAPHIC KiDS

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**Distributed by** Ovato Retail Distribution, 26 Rodborough Road, Frenchs Forest NSW 2086 Australia

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NATIONAL GEOGRAPHIC KIDS is published and distributed 12 times a year by Creature Media Australia Pty Limited, with permission of the National Geographic Society, Washington, DC 2009

**NG KiDS** is printed on paper using wood from sustainable sources.

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