



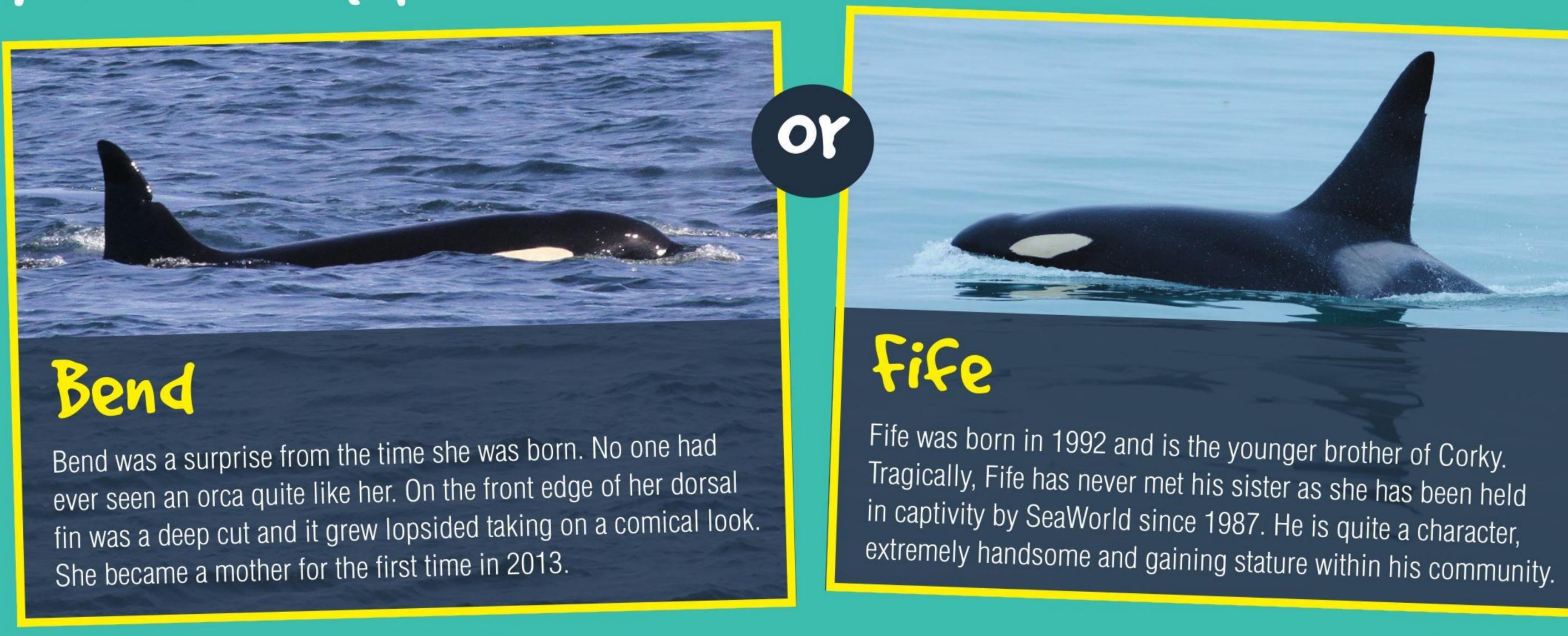
Adopting an orca helps protect their future...

Orcas are amazing but too many are dying. Poisoned by polluted seas. Accidentally caught in fishing nets. Some are even taken into captivity. By adopting an orca with Whale and Dolphin Conservation you can help us give orcas the protection they need to survive. Your support will help us protect them from activities such as industrial development, fish farming,

logging and pollution. We'll send you your very own adoption pack, including a personalised certificate with a picture of your orca, a set of fun stickers and a colourful WDC badge. We'll keep you up-to-date on their daily lives through a great quarterly magazine, a monthly e-newsletter and you'll receive an email birthday and Christmas card.

ADOPT AN ORCA Their spinster, ADOPT AN ORCA ADDPT AN ORCA ADDP

You can adopt:



To find out more visit adoptawhale.com

NATIONAL GEOGRAPHIC KiDS

Hello!

How cute is this issue's cover star?! But sea otters don't just look adorable-they help save the planet, too! Find out how on page 12. As a reader of Nat Geo



Kids, chances are you're a fan of amazing photos. But how are your own picture-taking skills?! Tum to page 30 to learn how to enter this year's exciting photo comp and get top tips on taking super shots. You could scoop a holiday in Morocco! Take inspiration from our new photo comp judge Ami Vitale on page 34, and go behind the scenes with an NG photographer who's on a mission to snap every species in captivity! Plus, don't forget we've got the usual comps, posters and puzzles - so get stuck in!

Editor, Tim

FREE this issue...



Write to NG KiDS

Email kids@ngkids.co.uk Post National Geographic Kids, Third Floor, 12-14 Berry Street, London EC1V 0AU Website natgeokids.com Facebook facebook.com/natgeokids Twitter twitter.com/natgeokidsuk Pinterest pinterest.co.uk/natgeokidsuk Instagram instagram.com/natgeokidsuk

4 POSTERS!















For **subscriptions** go to **natgeokids.com** To find your nearest stockist of National Geographic Kids magazine, please visit seymour.magzene.com

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PLUS!

- 4 Inside Scoop All the latest news and events from across the globe...
- 6 Wacky World! There are some bonkers things going on out there!
- Big Picture Are these birds fighting or dancing or what?!
- What's UP? This month's best books and movies!
- 36 Junior Explorers' Club Readers tell us what they've been up to!
- 39 Bet You Didn't Know Seven crazy facts about the world!
- 40 Win It! Six cool comps to enter!

43 NEW! Animal Heroes Comic

Meet a whale-rescuing dolphin in our new Mini Histories series!

- 44 Fun Stuff! A brain-busting crossword and a Funny Fill-In!
- 46 Make It! Try this tasty summer salad
- packed with surprising ingredients! 47 Competition entry form
- You've got to be in it to win it!
- 48 Puzzle Answers Oi, no cheating!
- 50 Weird But True Fantastic facts that'll astound you and your friends!

The latest news from around the globe...

From bus stops to buzz stops

ees are absolutely

Bus shelters in Utrecht, the Netherlands, have been transformed into bee havens to help Dutch bee populations!

The roofs of 316 regular bus stops have been planted with grass and wildflowers so bees and other pollinators have more places to feed! The blooming bus stops not only benefit the insects, but also improve the city's air quality, capture fine dust and store rainwater. Bee-rilliant!

What's more, if Utrecht's residents want to create extra 'bee stops' on their own roofs, the city's council will help **fund** them! Now that really is the bee's knees!





Happy news from New Zealand - numbers of the country's rarest bird - the orangefronted parakeet – have almost doubled so far this year. Hooray!

Once thought to be extinct, the beautiful green birds, known locally as kakariki karaka, are critically endangered, with an estimated population of just 100-300. Their decline was due to habitat destruction and introduced predators, such as rats and cats. But thanks to an abundance of **beech seed** this year, they've been breeding in record numbers. Squawk-some!

* Try saying the headline three times!

FAST FLYING ANT DAY Have you been caught up in a swarm of flying black ants this summer? Or seen the ground crawling with the winged things? Find out whyle

The ants we're most used to seeing are female black garden ants, marching around collecting food. But during summer, males and mature queens of the same species take flight! The queens are larger than the males up to **15mm** in length!

The ants take flight so queens can mate with males from different colonies, and set up new **nests** of their own. After mating, queens chew off their wings and crawl around looking for a place to dig a new nest. Look out for discarded wings on the floor!

For a **swarm** to happen, conditions must be just right – usually triggered by hot and humid weather. As so many ants appear at the same time, the phenomenon is often known as 'flying ant day', but it's really more of a short season! Flying in big numbers **protects ants** from predators and gives them a better chance of finding mates.



New face of the fifty!



A friendly face is set to appear on the new £50 bank note – Alan Turing, the maths genius who laid the groundwork for modern computing.

The English mathematician (1912-1954) is most famous for his work during World War 2, where he helped unscramble the Enigma code - the Nazis' secret messaging system. His complex code-breaking work is thought to have shortened the war, saving millions of lives!

Alan had ideas about Artificial Intelligence and computing that were way ahead of his time, paving the way for modern computers. Without him there'd possibly be no Nat Geo Kids and certainly no *natgeokids.com* – can you even imagine?!

Medi Teddy

A 12-year-old girl has invented something to make hospitals friendlier places for children – a smiley stuffed bear called Medi Teddy! Ella Casano from Connecticut, USA,

has a rare illness that means she has to visit the hospital every eight weeks to get treatment through a drip. However, Ella found all the tubing and medical equipment a bit scary. So, to make the treatment feel friendlier, Ella decided to make a cute cover for her IV bag out of a stuffed toy! It was such a hit with nurses that she's patented the design and is now setting up her own charity called Medi Teddy, so that other poorly kids can enjoy her invention. Nice work, Ella!



Newents

Competition

Fans of terrible breath and weeping eyes should get down to **Newent Onion Fayre in Gloucester** this September, for the annual onion-chomping comp. Bleurgh!

Contestants must munch an apple-sized onion, then hold their mouths wide-open and their hands outstretched to prove to the judges it's all been gobbled. Last year's

champ Alex Navari set a new record by swallowing the stinky veg in an eyewatering 45 seconds! But don't worry if you don't fancy devouring an onion there's plenty more onion-themed fun at the Fayre, including onion cooking contests, onion-growing awards,

and, randomly, a dog show. Hot dog with onions anyone?

MAKEITA

Things to take part in this month!



Mammals on Roads Survey

Download the free app and help track populations of British mammals! Head to ptes.org/mor



Jeans for Genes Day

Wear jeans, saves lives! Find out how your school can raise money at jeansforgenesday.org



Great British Beach Clean

Help keep the sea litter-free for wildlife! Find an event near you at mcsuk.org/beachwatch



Recycle Week

C'mon – let's rinse, crush, squash, sort and separate! Learn more about recycling at recyclenow.com

Check out the planet's strangest pictures...



Frefighters in **Dortmund**, **Germany**, got a wild surprise in June when they responded to a call about an animal in difficulty. They discovered a **red squirrel**'s head poking out of a **manhole cover**! Unable to free the unfortunate rodent, they took the **entire drain cover** to a nearby vet's clinic, where the squirrel was safely **removed**. Phew!

Flying fun

Check out this crazy Japanese hotel room! The Haneda Excel Hotel Tokyu has installed a hi-tech flight simulator in one of its rooms, so guests can experience piloting a plane. A night in the Superior Cockpit Room including a 90-minute stint behind the controls will set you back a cool £407. Whoosh!





Bonkers

building

With its wobbly windows and strange curved angles, this odd-looking medical centre in Lancaster, California, USA, really stands out from the crowd. No wonder thousands of tourists flock to see it each year!

CRAZY STATION

The weird entrance to Bockenheimer Warte station in Frankfurt, Germany, is a tram car that looks like it's crashed into the pavement.

Tram-tastic!



WOODEN WONDERS

This epic animal sculpture is the work of Spanish artist Gerard Mas. The Barcelonabased sculptor carves huge tree trunks to create super-realistic cuties.

So clever!



Could colourful **leotards** be the next big thing in doggy fur-shion?! The **Shed Defender** catches **molting fur** and helps keep dogs **calm**, **clean**, and **safe from bugs**. Paw-fect!



GROW A FOREST FROM THIS MAGAZINE

At Yorkshire Tea we've planted millions of trees over the years - and we want to plant a million more by 2020.

Scan the Shazam code to see trees grow out of this page and discover why trees are proper important.





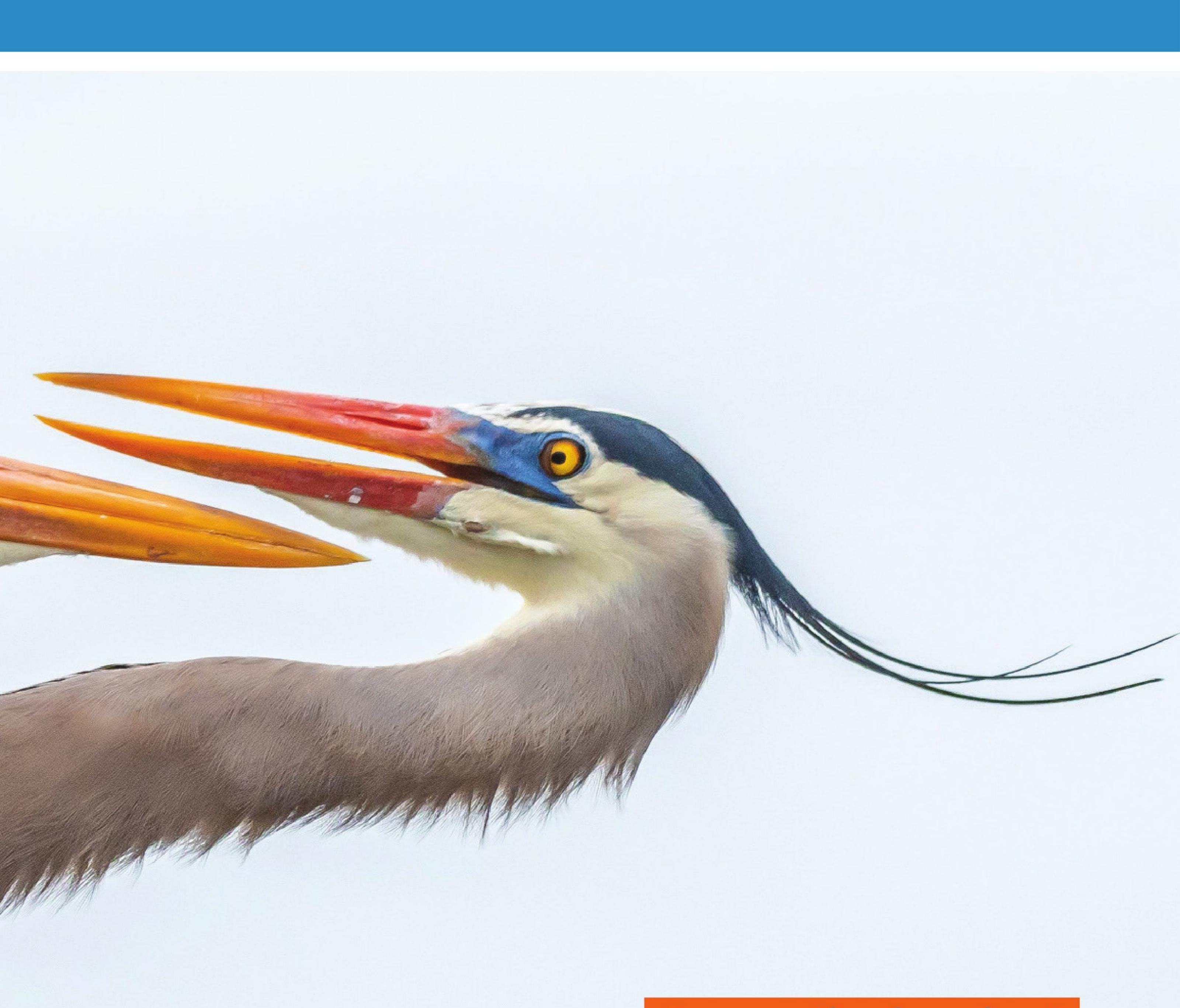


DOWNLOAD / OPEN SHAZAM

TAP CAMERA







Dramatic dancing!

Are these **great blue herons** fighting or flirting? Turns out their elaborate **mating ritual** is a bit of both – with moves including **neck stretching** and **bill duelling**! Photographer **Melissa Rowell** snapped this striking shot on a stormy day at **Wakodahatchee Wetlands** in Florida, USA, scooping her an honourable mention in this year's **Audubon Photography Awards**.

"I was fascinated by their **intense expressions** as they sparred," says Melissa. "The drama was further heightened as the **wind picked up**, accentuating their long, flowing **plumes**." Great composition, Melissa!

Check out the other winners over at audubon.org

WHAT'S

Films, events, TV and books to get excited about this month...

ENTER ALL COMPS ON PAGE 47!



Famous maitre d' (head waiter) Fred Sirieix and star chef Allegra McEvedy are on the hunt for the best young restaurateurs in this new TV talent show!

Contestants must work in teams to run a themed restaurant. One 'front of house' group is set challenges by Fred to learn all about providing great service. Meanwhile, Allegra dishes up foody missions for the kitchen-based team!

Who will have the talent and skills to make it through the heats and secure a place in the semi-finals?!

On CBBC weekdays at 9:30am and 4:30pm.



Step Up To The Plate (2) Ocean Film Festival

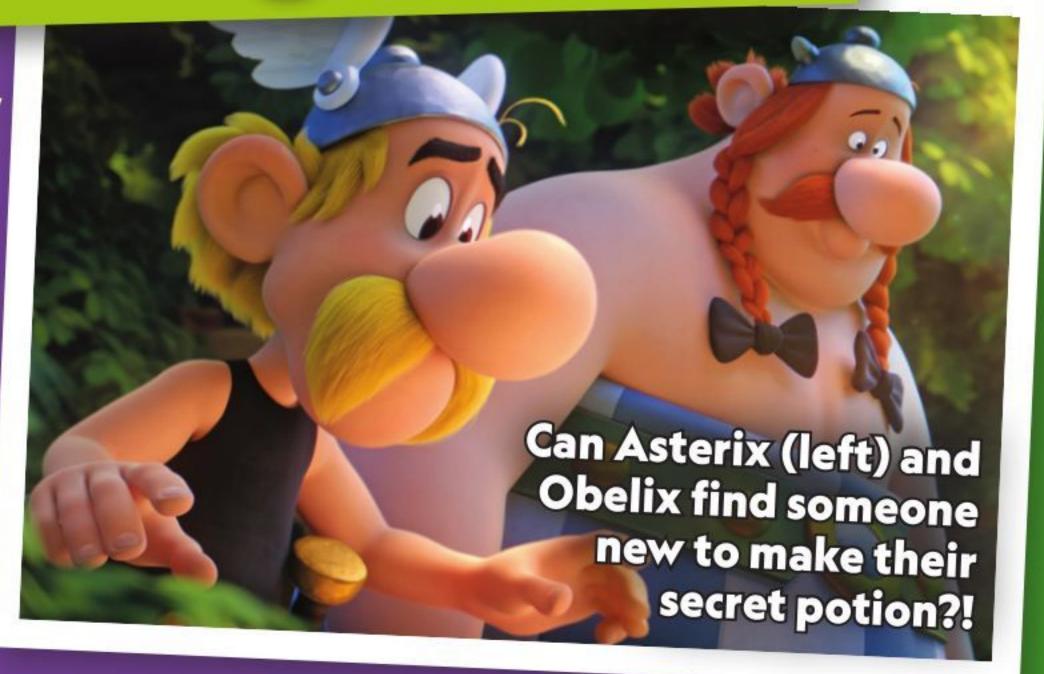


Dip your toes into the wonders of the big blue from the comfort of a cinema seat! The Ocean **Film Festival World** Tour hits UK and Irish shores this autumn with a collection of spectacular short films. Featuring surfers, fishermen, marine scientists, artists and wild adventurers, these mini movies showcase fascinating characters who have dedicated their lives to the sea. Splashing stuff!

Screening at 35 venues around the UK and Ireland in September and October. Find a venue near you at oceanfilmfestival.co.uk

Asterix: The Secret of the Magic Potion

The year is 50 B.C., and Asterix and his big pal Obelix live in the only **Gaulish** village still undefeated by the invading Roman army. And it's all because of a magic potion that gives them



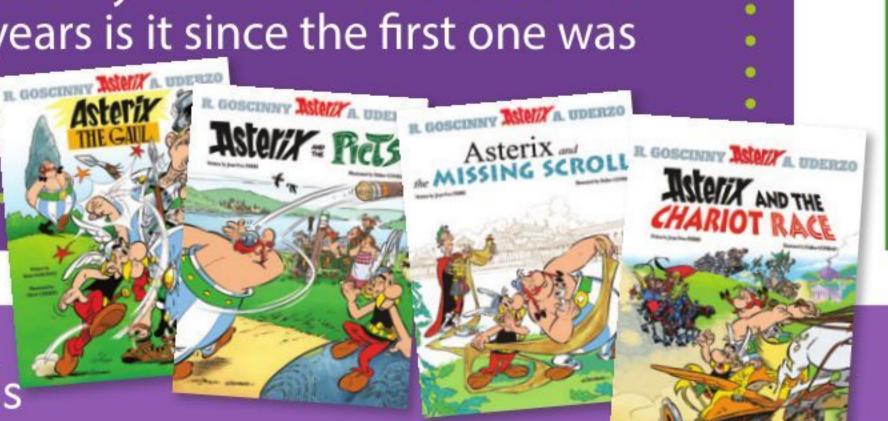
superhuman strength! Trouble is, the druid that makes the potion is getting very old, and he needs someone to learn his recipe. So Asterix and Obelix set off on a quest to find a young druid worthy of learning the magic formula.

In cinemas 30 August

Five readers will scoop four fantastic Asterix and Obelix comic books!

This year is the anniversary of the Asterix and Obelix comics. But how many years is it since the first one was published in France?

a) 6 b) 60 c) 600





Make the most of the last days of summer by visiting some of the National Trust's 500 special places! Simply explore the sights, or take part in special events and activities - from camping on a remote island to learning bushcraft skills, or experiencing life as a knight! And we didn't even mention the I-Spy trails, pond dips, archery classes and escape rooms!

Find an event near you at nationaltrust.org.uk

Five winners will scoop family day passes for a **National Trust** property of their choice.

How long ago was Corfe Castle in Dorset (see pic above) built? a) 10 years b) 1,000 years c) 100,000 years



















Hi Tony, you draw huge circular patterns on beaches which get washed away by the waves! Do you get upset when your beautiful artworks are erased by nature? Absolutely not! These drawings are made in the understanding that they will soon be rearranged by the tide and the weather. Living in Cornwall, I have a huge selection of beaches to draw on, like pages in a massive, sandy sketchbook. With every new tide comes another opportunity. What equipment do you use?

A rake and a sunhat is all you need, although to film and document them takes a rucksack full of drinking water, paints, sketchbooks, pencils, cameras, tripods, spare batteries, memory cards, energy bars and fruit! How do you know when a drawing is done? **Tides** control everything. I usually draw on a dropping tide, and it's finished when it's finished. Often I don't actually see the drawings – by the time I get back up the cliff they are gone – but if I've set up cameras, there's a good chance I might get to watch a recording of the piece.

The short film you've made for the Festival is called *Forever*, even though your drawings only last for a few hours! Why did you choose that title?

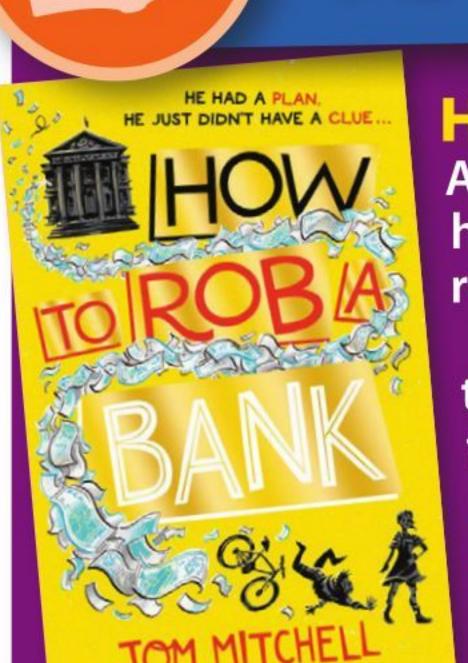
That's the point – what does 'forever' mean? The film's title points towards the fact that nothing lasts forever.

Finally, do you have any advice for kids who'd like to give beach drawings a go? Try it, you really can't get it wrong, because there is **no right**. Grab a stick, get to the beach and start walking! Thanks Tony! Send us your summer beach drawings, readers!

See more cool seashore art at tonyplant.co.uk



Your book reviews



How to Rob a Bank Tom Mitchell

After 15-year-old Dylan accidentally burns his best friend's house down, he spends the rest of the summer trying to rob a bank to make it up to her!

One of the best things about this gentle book is that it really conveys what it's like to be a teenager today. The story flowed well and I laughed a little in places, but it wasn't very gripping – there were no strong emotions and it didn't transport me into the story. I personally prefer a bit more adventure.

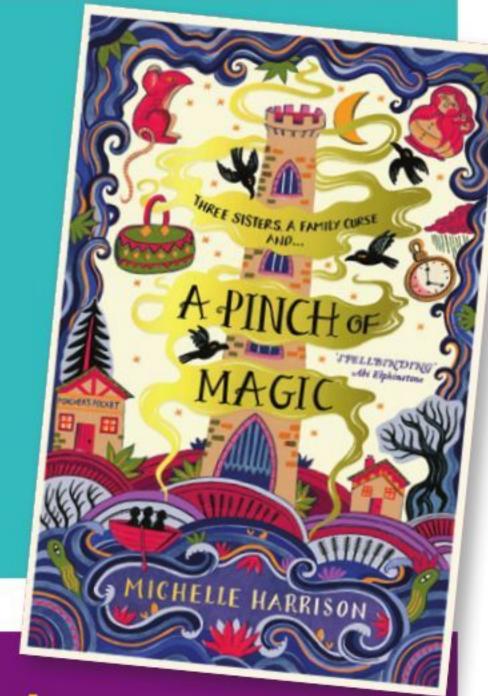


Euan, 12

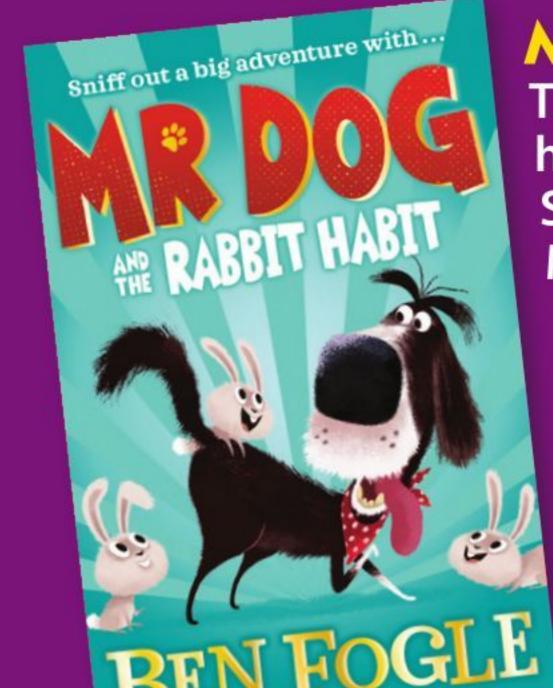
A Pinch of Magic Michelle Harrison

In this 'must read' book, three sisters are imprisoned under a curse. They have three magical items - a bag, a mirror and a set of nesting dolls. Will they be able to use these enchanted objects to break the curse and survive?

> This great book is full of adventure, fantasy and MAGIC! I recommend it if you love danger and mystery, of course!







Mr Dog and the Rabbit Habit Ben Fogle

This is a sensational book about how Mr Dog has an adventure trying to save a family of rabbits. Someone has caught the rabbits' mother and Mr Dog needs to get her back.

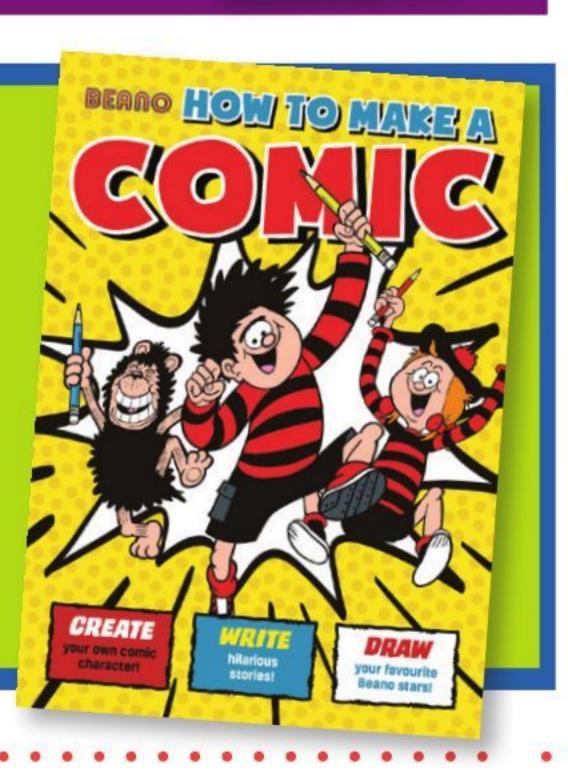
I love Mr Dog because he is kind, helpful and has a smart handkerchief around his neck. There are lots of bits that made me laugh – like when they are **soaked** by a **sprinkler** or when Mr Dog runs away with the sausages! I now want to read all the books in the series!



Rory, 7

FACT BOOK OF THE MONTH

Beano: How to Make a Comic (Studio Press) If you've ever wondered how comic artists come up with such funny stories, or how they draw iconic characters, then this is the book for you! Learn to create your own comic strips, invent cool characters, and find out how to generate amazing adventures! With step-by-step drawing guides and top tips from real Beano artists, you'll be making your own strips in no time. Let the comic chaos begin!



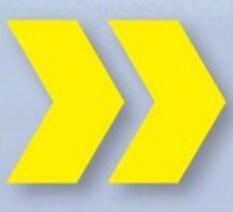
Beano is the longestrunning British children's comic. There have been 3,990 issues to date!

All four of these books are up for grabs! All four of these books are up for grabs.

Q Which of these is NOT a breed of rabbit? a) Fuzzy lop b) Mini rex c) Chihuahua



FIVE WAYS SEA OTTERS ARE SAVING THE EARTH...



Sea otters aren't just otter-ly cute – these amazing marine mammals also help protect the environment! Read on to find out some surprising ways sea otters are saving our planet.



Sea otters use their stomachs like plates as they eat! A sea otter watches a crab scuttle across a mud bank at the Elkhorn Slough Reserve, an estuary* in Monterey Bay, California, USA. The otter uses its forepaws to move across the mud, then... snatch! It grabs the crab and starts to devour its lunch.

Believe it or not, the sea otter's

* An estuary is the wide part of a river where it joins the sea.

Munching on a Dungeness crab

SEASHORE DEFENDERS

A sea otter wiggles out of the water in the Elkhorn Slough estuary, and goes to the toilet near some **pickleweed**, a flowering plant that helps keep the banks strong. It sounds gross, but this mammal's poo is great for the environment.

An otter in pickleweed

"Sea otter faeces is an excellent fertiliser for the pickleweed," explains Michelle Staedler, the sea otter program manager at Monterey Bay **Aquarium** in California. "Harbour seals poop near pickleweed too," she says. "But because they're heavier than otters they end up flattening the plants. Pickleweed grows faster and is healthier when fertilised by otter poop."

Healthy pickleweed roots strengthen the mud banks. "Without the plants, the banks could collapse when water rushes in," Michelle says. That could lead to coastline erosion, which is when the ocean washes away chunks of land. So while a pile of sea otter poo might not seem appealing, it makes for a more **stable** habitat. Hooray!

meal helps prevent pollution in this finely balanced estuary ecosystem.

A type of seagrass called eelgrass grows in this habitat, filtering out pollution from water flowing into the estuary. But the eelgrass needs just the right amount of algae in its environment – too much algae can **smother** it.

Fortunately, the estuary's intricate food chain comes to the rescue with the otters at the top! The sea otters eat crabs, which eat the sea slugs that eat the algae, keeping the whole ecosystem in a delicate balance, with just the right amount of algae for seagrass to thrive. (Did you get all that?!) Brilliant!







and out of the otters' habitat.

LIFE SAYERS A pup rests on its mother's tummy

Sea otters are sometimes called indicator species because they're among the first creatures to react to environmental changes. This means they can help scientists solve environmental mysteries.

For example, when a group of sea otters in the **Pacific Ocean** became ill, scientists were able to examine them in their

central California coastal habitat. They found that a dangerous toxin, produced by an increase in algae, was making the otters poorly.

"Thanks to the otters, we knew about the extent of the toxic algae in coastal waters and could look into its impact on other animals, too," says Christine Kreuder Johnson, a researcher at the University of California.

Sea otters eat a lot – and they consume many different types of foods – so they're more likely than other animals to ingest something dangerous. And, because the otters don't travel much, scientists like Christine can keep a close eye on any odd behaviour.

Good news!

Sea otters

live in colonies

that can include over a thousand individuals. National Geographic Kids





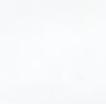
ARCTIC FOX

The Arctic

The arctic fox's coat has two layers – beneath the long, outer hairs, there's another layer of soft hairs tightly packed together. This system traps a layer of warm air next to the **skin** to keep the fox toasty in the winter.

In **summer**, the Arctic fox's fur is **brown** or grey to match the rocky ground. But when winter comes, it changes colour, turning pure white to blend in with the snow.

An Arctic fox has a very dense coat, with about **20,000** hairs per square centimetre.



WHERE THEY LIVE

Pacific Ocean

SEA OTTER



DOUBLE FLUFF

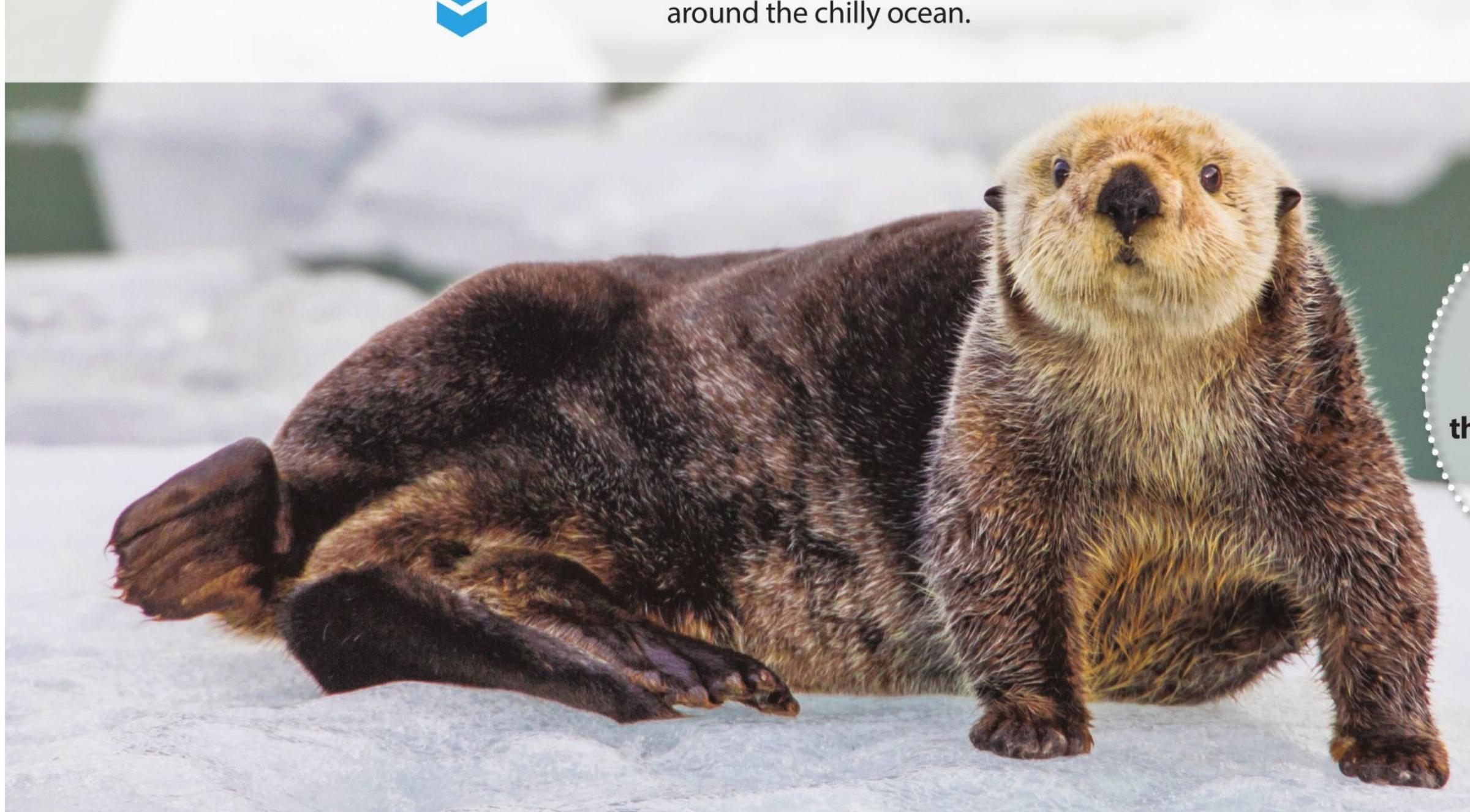
A sea otter's coat is also made up of two layers an inner one that traps air to keep it warm, plus an outer water-repellent layer that keeps its skin dry when it's in and around the chilly ocean.

COAT NOTES

To keep their coats waterproof, otters spend about 5-6 hours each day grooming their fur.

THE HAIR THERE

Sea otters have an incredible 140,000 hairs per square centimetre on their coat. Us humans only have 100,000 hairs on our whole head. Wow!



WINNER: **SEA OTTER**

Sure, Arctic foxes are fluffy... but sea otters undoubtedly have the thickest coat in the animal kingdom. They take the crown in this showdown!

HISTORY'S THE STATES TO SERVICE OF THE SERVICE OF T

After his death, many of Einstein's more extraordinary claims were proven to be correct – including black holes!

ALLABOUT

ALBERT EINSTEIN

Described as the greatest mind of the 20th century, Albert Einstein's work revealed the answers to some of the great mysteries of the universe...

1879-1895

Albert Einstein was born in Ulm, Germany on 14 March 1879.

As a child, his fave toy was a compass, and he enjoyed solving maths riddles and building towers out of playing cards.

Some of his card creations were 14 storeys tall! Einstein was such a prodigy that at age 16 he wrote his first scholarly paper on the force of magnetism. Bet that pulled in a lot of readers!



1896-1905

Despite being **super brainy**, Einstein did **badly** at school – probably because he found it so **boring**. One teacher even said he'd "**never amount to anything**"! He **ran away** from Germany to avoid military service and ended up at college in **Switzerland**. Average grades meant he struggled to get a job after college, but a friend found him work at a **patent office**. It was dull, but gave Albert time to do his own **calculations**!

1905

E = mc

Albert had an extraordinary year in **1905**, publishing **four scientific papers**! His work turned modern

physics on its head, introducing mindblowing theories on light, atoms, relativity and energy. One of the things he figured out was that energy and mass are different forms of the same thing. This was summed up by his famous equation $E = mc^2$, his theory of special

relativity.

1909-1915

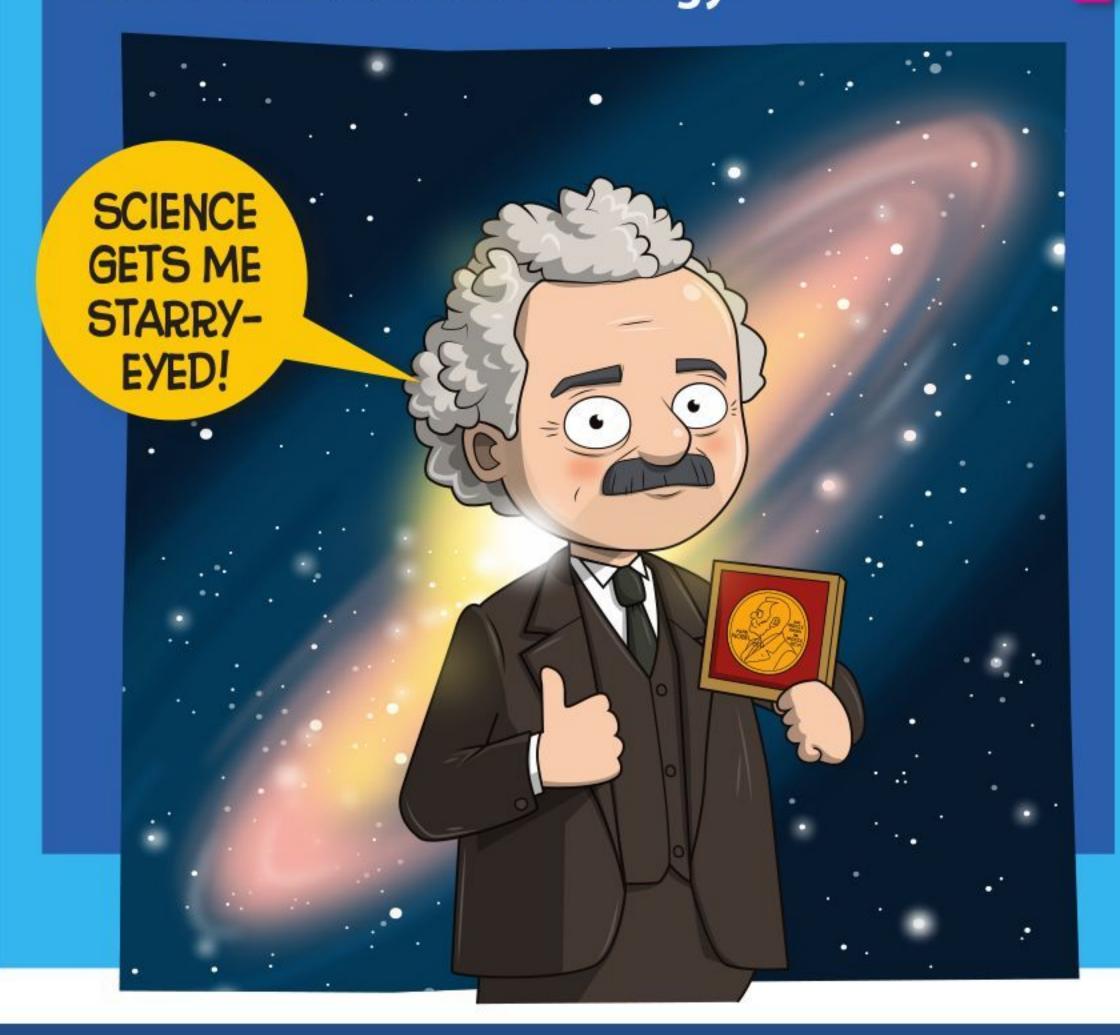
Not everyone liked (or understood) his ideas, but in 1909 Albert was finally made a professor, at the University of Zurich. He continued tweaking his work, and in 1915 he published his theory of general relativity, all about gravity, and how time and space can bend. Whoa!

1919-1922

In 1919, one of Albert's theories (that gravity can bend light) was proved during a solar eclipse, making him the most famous scientist alive!

During world tours, thousands would come to watch him speak, and he was awarded the 1921

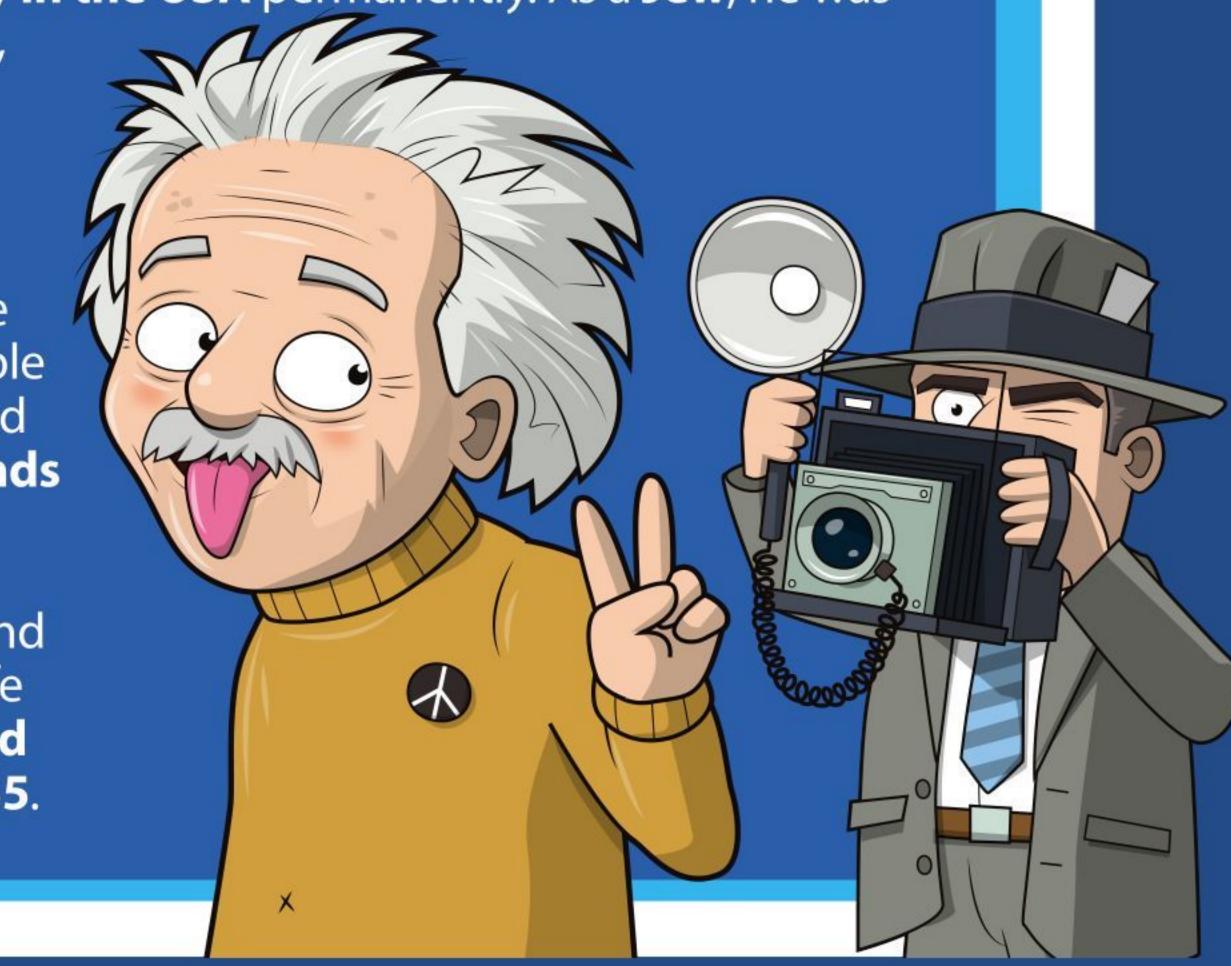
Nobel Prize for Physics – an honour for major scientific accomplishments. His work revolutionised the way we think about time and space, and also paved the way for developments like the television and nuclear energy.



1933-1955

Albert spent lots of time in **America** where he was adored for his **eccentricity** – he once famously **stuck his tongue out** to ruin a serious photo! But when **Hitler** came to power in **Germany** in **1933**, Albert decided to **stay in the USA** permanently. As a **Jew**, he was

in danger back home, and so he became a US citizen in 1940. Tragically, Einstein's work with atoms led to the invention of the atomic bomb, a terrible weapon which claimed hundreds of thousands of Japanese lives in World War 2. Albert was horrified and spent the rest of his life campaigning for world peace. He died in 1955.



PLASTIC PIONEERS!

Find out who won Covestro's cool school competition!

Back in January, we asked you lot to design a poster that would inspire people to use less single-use plastics, and also to tell us what your school is doing about plastic pollution.

Now it's time to reveal the champs...

MEET THE WINNERS!

Brothers Benjamin (7) and Aiden (6), from Blundell's Prep School in Devon, were crowned joint champions for their striking 'Iceberg' design. They beat more than 300 other entries. Congrats, boys!



SUPER SCHOOL

Our champs told us that looking after the environment is a "way of life" at their school, Blundell's.

When they joined Year 2, they made a **Plastic Pledge** to **avoid single-use plastic** and become **Plastic Pioneers!** In class, they learned about the devastating impact single-use plastic has on **marine life**, and created an 'Octofish' out of **recycled plastic** to remind others of the issue.

They made recycled greetings cards, took part in beach clean-ups, and collected school kids' single-use plastic over the course of a week so they could see how much they used. Great work!

As well as winning £150 of toy vouchers for themselves, Ben and Aiden scooped £400 STEM funding for their school. But best of all, Covestro scientist Dr. Karolin Schenk (see circular pic below) visited their Year 2 class to do a fun workshop all about plastics!



Dr. Karolin Schenk taught the kids to create 'polymer worms' – an awesome experiment to show how molecules found in algae can be used to make slimy solids. Cool!

The whole class took part in a fun **plastics and climate change quiz** and asked **Dr. Schenk** lots of questions about being a scientist.



"It's been
a delight to meet
Benjamin, Aiden
and their classmates!
They're potential
scientists in the
making!"





Head to natgeokids.com/uk/all-about-plastic to learn more about plastics!

WHO IS COVESTRO?

Covestro produces innovative plastic materials to make the world a brighter place.



Keep Earth

Newborn giant pandas weigh as little as a pouch of cat food!

Nat Geo photographer Joel Sartore gives us a behind-the-scenes look at his quest to save animals...

Joel Sartore has made funny noises, suffered a stink attack and protected his camera from a parakeet – all to help save animals through photography. "I hope people will look these animals in their eyes and be inspired to protect them," he says.

Joel's aim is to make portraits of all **12,000 animal species** living in zoos or wildlife parks for his project, the **National Geographic Photo Ark**. During each photo shoot, he works with **zookeepers**, **aquarists** and **wildlife rehabilitators** to keep his subjects safe and comfortable. But things can still get a little, well, wild! Read on for some of Joel's most **memorable moments**.

Joel uses black or white backgrounds for his photos because he wants the focus to only be on the animals. That way a mouse is as important as an elephant. Clever!

Moment of Some HUH? arctic fox dens are 300 years old. ARCTIC FOX, native to the Arctic regions of Eurasia, North America, Greenland, and Iceland Great Bend Brit Spaugh Zoo, Kansas, USA Todd the arctic fox wanted to sniff everything, but he was moving too quickly for me to get a good picture. I needed to do something surprising to get his attention, so I squealed like a pig! The weird sound made the fox stop, sit down and tilt his head – as if he were thinking, 'What's the matter with you?'! Good thing I was fast, because the pig noise only worked once. The next time I squealed, Todd **completely** ignored me.

NATIONAL GEOGRAPHIC

PHOTOARK

BY THE NUMBERS

Joel is on a **mission** to photograph each and **every animal species** in captivity – all **12,000** of them. Here's how he's getting on...

Species photographed: More than 9,850

Institutions visited: **450**

Countries visited: **50**

Time spent so far: 13 years

Cameras used:
At least 15

Moment of SNOOZE

GIANT PANDAS,

native to China Zoo Atlanta, Atlanta, Georgia, USA

These giant pandas were just a few months old when I put the rugby ball-sized twins in a small, white photo tent and **snapped** some pics as they tumbled on top of each other. But the youngsters were tiring out, and I knew I was losing my chance to get a memorable photo before they drifted off to sleep. One cub put his head on the back of the other, and I managed to capture an awesome **shot** just seconds before the two cubs **fell asleep!**



A single colony of grey-headed flying foxes can include a million bats!

Moment of

SWEET!

GREY-HEADED FLYING FOX, native to southeastern Australia Australian Bat Clinic,

Advancetown, Australia

When I arrived at the clinic, I was amazed to see all sorts of bats just hanging from laundry racks all over the rescue centre. They sleepily watched me as I walked through the room and asked a staff member for a **friendly** flying fox to photograph. She scooped up a sweet bat and placed its feet on a wire rack in front of my backdrop. The **calm bat** didn't seem to mind being in front of the camera. The best part? This clinic **rehabilitates bats** that have torn their wings, and my subject was eventually released back into the wild.



PALAWAN STINK BADGER,

native to the Philippines Avilon Zoo, Rizal, Philippines

This stink badger really earned her name. Right after walking into the photo enclosure, she lifted her tail and released globs of smelly goo from her bottom! It was like a skunk smell, but much worse. (Since these animals are slow movers, the stinky smell is their best defence against predators.) We took the photos as fast as we could, and then the zoo staff treated her to some extra worms. But I made a big mistake in photographing her first that day. The binturong that I was supposed to shoot next took one whiff, walked out, and refused to come into the photo enclosure for the rest of the day!

Palawan stink badgers also use their scent to mark their territory.





BORNEAN ORANGUTAN, native to Borneo, an island in **Southeast Asia**

Avilon Zoo, Rizal, Philippines

I knew **Trixie** was special when she walked into the room holding her keeper's hand. Since this orangutan grew up with her keepers, she was totally relaxed around us. I pointed to the corner of the room where

I wanted to do the photo shoot, and Trixie walked right over. Then she lay down and looked at me through the lens of the camera. I felt like she could understand everything I said, so I just

told her to strike a pose. As you can see, she did it **perfectly**!



Orangutans sleep in giant nests they create in the forest canopy.

More WILDNESS! Photo Ark spotlights all kinds of animals. Meet some of Joel's strangest subjects...



BUDGETT'S FROG

Native to Argentina, **Bolivia and Paraguay** Baltimore Aquarium, Baltimore, Maryland, USA



ORANGE SPOTTED FILEFISH

Native to Indo-West Pacific Ocean Henry Doorly Zoo and Aquarium, Omaha, Nebraska, USA



MEDITERRANEAN **RED BUG**

Native to the **Mediterranean region** Graham's Quinta dos Malvedos Vineyard, Portugal



NORTH AMERICAN PORCUPINE*

Native to North America Nebraska Wildlife Rehab, Omaha, Nebraska, USA * The critter above is a rare albino porcupine!



Moment of WOV!

parakeets
sometimes nest in
mounds made by
termites.

RED-MASKED PARAKEET,

native to Ecuador and Peru Kamla Nehru Zoological Garden, Ahmedabad, India

Parakeets are loud, active, supersmart birds. When I brought this red-masked parakeet into the photo tent, he first climbed up on to the equipment and nibbled at my lens. But then something caught the bird's eye - his own reflection in the camera lens! He didn't try to fight the reflection, so I thought maybe he understood he was looking at himself, or perhaps at another bird he knew wasn't a threat. Instead, he **posed** for the camera! I felt like the clever bird could tell I was there to take his picture and help him.



ALAOTRA REED LEMUR Native to Madagascar Plzeň Zoo, Plzeň, Czech Republic



It is a well-known fact that fairies are born from a baby's first laugh. What is not as well documented is how monsters come into being...

T.C. SHELLEY







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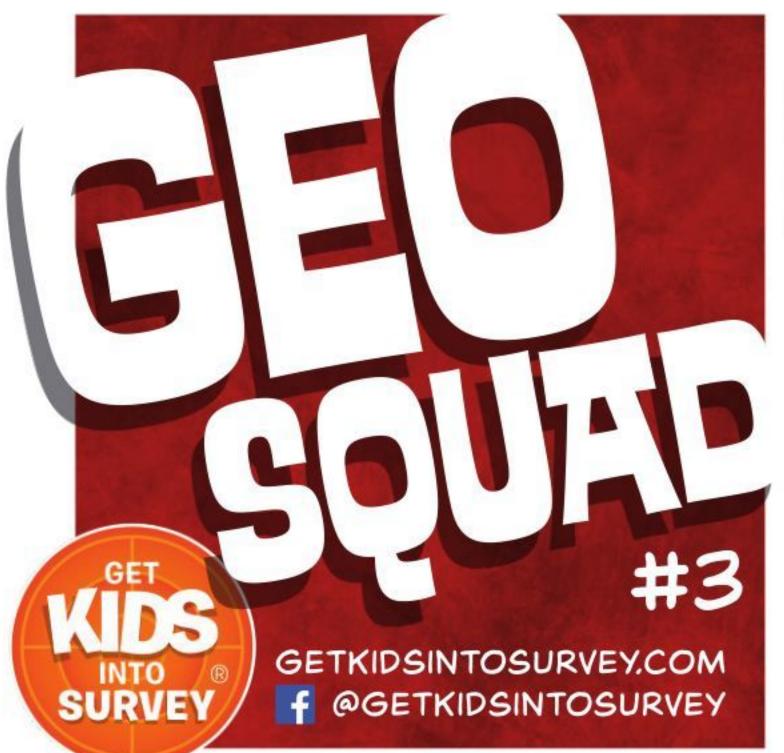
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ADVERTISEMENT

It WAS. It was the SURVEYOR'S SANCTUARY - the one place we were SAFE.



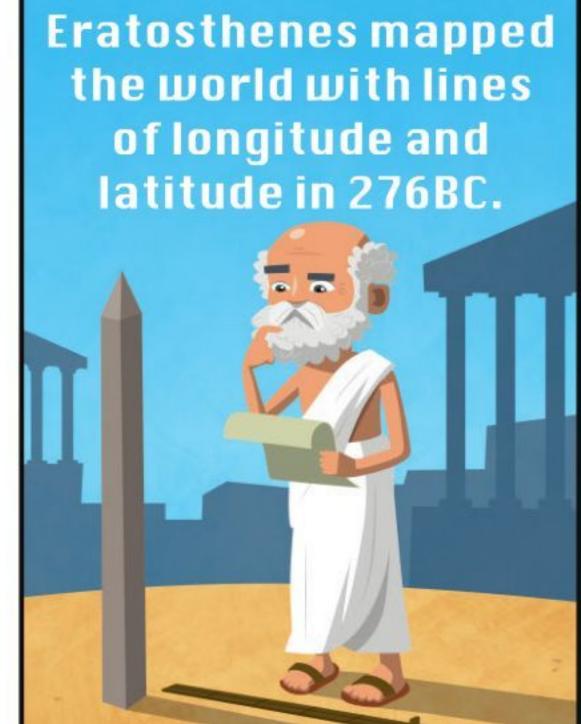


AND WHAT THE HECK SAFE FROM IS A SURVEYOR? WHAT? START THAT MOUSTACHE DANCING AND EXPLAIN ALL THIS!

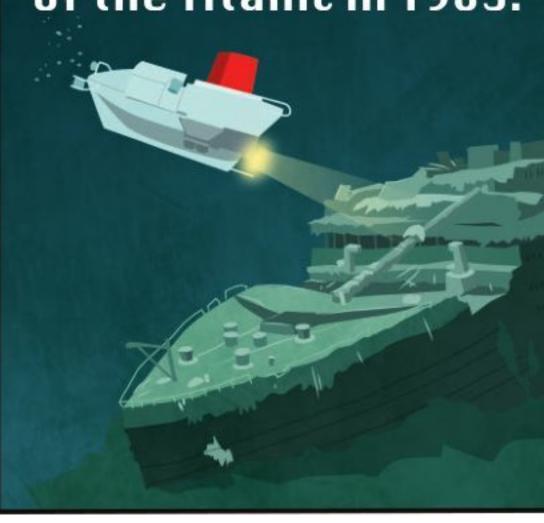


Surveyors were EXPLORERS, PROBLEM-SOLVERS and MASTERS OF TECHNOLOGY. They were the MAPPERS OF EVERYTHING, and the SAFEKEEPERS of cities.





Dr Robert Ballard, in his submarine named 'Alvin', discovered the wreck of the Titanic in 1985.



Bradford Washburn's team planted a GPS of Mount Everest in 1999 to measure its size.



Every one of these awe-inspiring receptor on the peak buildings is the result, first and foremost, of the careful work ! of surveyors.

SO WHERE WERE ALL THE SURVEYORS WHEN OUR CITY GOT WRECKED? IT LOOKS LIKE IT WAS BUILT BY AN ANGRY





GREED took over. Reckless developers put up DANGEROUS buildings wherever they PLEASED.





Surveyors PROTESTED - but were SILENCED - until only I remained. I had to take ACTION...





Using the TECHNOLOGY of the SURVEYORS... ...I started to build four, very special MACHINES.

I wrote a computer program to reach back in DATATIME...



TI=WORDARRAY. & (I-<=LEN6TH) IF (WORDARRAY>O) PHASEARC_15 EXECUTE _ TIMENET;

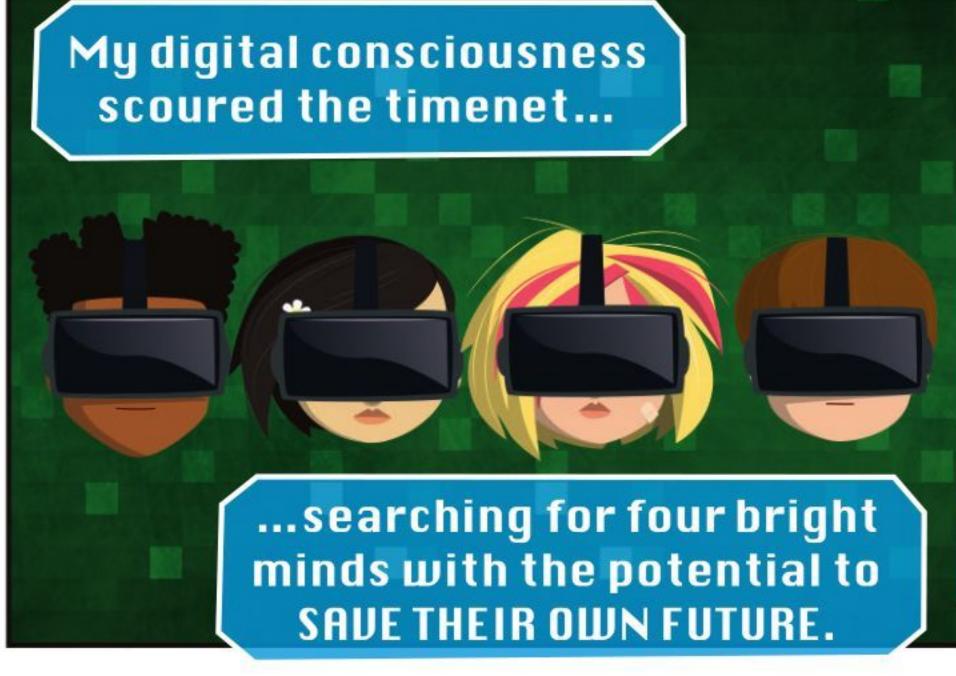
I called it the TIMENET - a ground-breaking method OF VIRTUAL TIMETRAVEL

I built a vast supercomputer, hidden deep in this cave...





...and as my final human act, I uploaded my intelligence to the mainframe.







THIS EPISODE KINDLY SPONSORED BY



2019 PHOT

Woohoo! Get your cameras and smartphones at the ready, because it's time

THE CATEGORIES

You can enter as many categories as you like – but just ONE photo per category!

1) ANIMALS

Pictures of the planet's non-human inhabitants! Beloved **pets**, **incredible insects**, foraging **park life** or **exotic creatures** – we want to see the world's wildlife in *all* its shapes and sizes. You could capture animals in their **natural environment**, in a **zoo** or **wildlife park** – or somewhere completely unexpected.

TOP TIP

Most people take photos from head height, which can be boring as we see the world from that angle all the time. So try taking images from an animal's view point! Imagine how different the world must appear everything must seem so big or small!

Ami Vitale's cute panda pic!

2 PEOPLE

Rather than simply asking your subject to say "cheese!", try some tricks to make them forget they're being snapped! You could ask them to hold their breath, jump in the air or even eat something.

You can tell a lot about a person from how they react!

Will you choose to take a stylised **portrait** of someone you know well, carefully choosing the **backdrop** and **lighting**? Or will you **capture** a more **candid** shot, with a **natural expression**? You could show someone at work, at play, daydreaming, or in action. **Group shots** can be entered into this category, too. Whichever you choose, try to **reveal something** about the **character** and **emotion** of the person or people in the picture.

* Tips taken from Be A Super Awesome Photographer by Henry Carroll

The criss-crossing trees add

an interesting element to

An interesting backdrop makes Ami's picture of these women very intriguing! What do you think they're talking about?

3 ENVIRONMENT

We've launched a brand-new eco-friendly category this year

and for this one, we want you to take an image that inspires people to protect our planet! You may want to show images demonstrating the damage humans can do to the environment – such as litter or pollution. Or maybe you could capture positive things that are being done to help, such as animal rescue centres, eco homes, climate change protests or beach clean-ups!
 Or your picture could simply capture a beautiful,

natural scene that you want to protect. We can't

wait to see your inspiring shots!

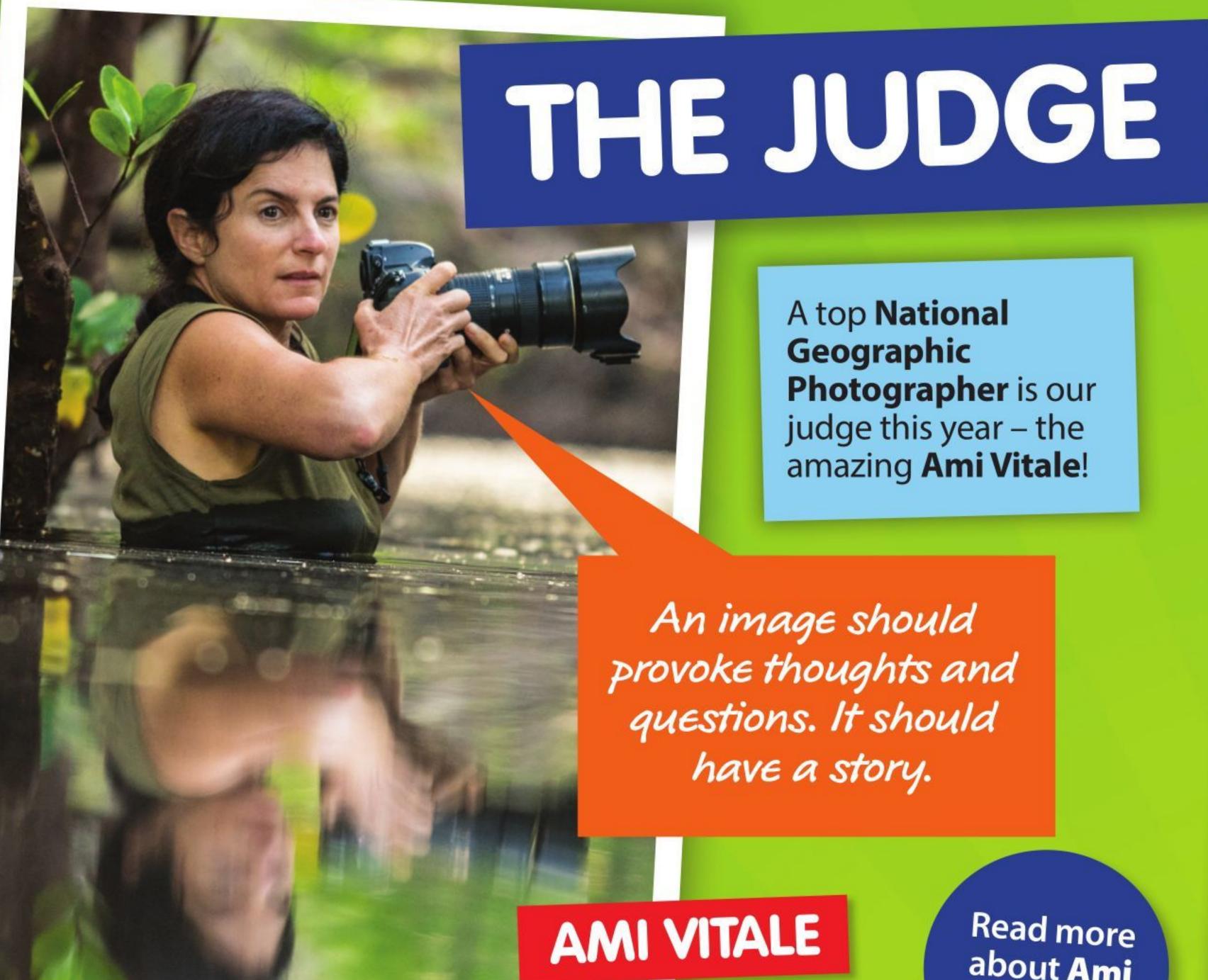
TOP TIP

Researching your subject can make all the difference! And be patient! If you take lots of shots of the same thing, at different times of day, you can have fun picking out the best one. And finally, don't be afraid to experiment with angles and focus!



A FAMILY **HOLIDAY TO** MOROCCO, **COOL CAMERAS** AND MORE!

for this year's NG KiDS photography competition...



Read more about Ami on page 34!

This year, all entries are via our website. If you're not already registered, you* or your parent / guardian will need to do so at natgeokids.com/uk/photocomp - it will only take a minute to do!

You can upload ONE photo for each of the three categories. Photos should be in JPEG format, between 1MB and 5MB in size. Enter at natgeokids.com/uk/photocomp

Before you upload your photo, make sure you rename the image file with your full name and the category you are entering. For example: Joe_Bloggs_Animals.jpg

Don't forget to tell us your full name, date of birth and the title of your photo!

The deadline is 21 October 2019!

> You must be age 7-14 to enter!

Terms and Conditions: Contest is open only to legal residents of the UK and Ireland who are between the ages of 7 and 14 at the time of entry. Employees of Creature Media, National Geographic Partners, the National Geographic Society, the prize providers, their affiliates and subsidiaries, and their immediate family members (spouse, parent, child, sibling and their respective spouses, regardless of where they live) or persons living in the same households of such individuals, whether or not related, are not eligible to enter or win a prize. The deadline for entries is 23:59 (BST) on 21 October 2019.

The competition Entrant must be the photographer. Entries must be uploaded by the Entrant's parent or guardian at natgeokids.com/uk/photocomp. Each photograph must be between 1 megabyte and 5 megabytes in size, must be in JPEG format and 300dpi resolution. Entries need not be taken with a digital camera; scans of negatives, transparencies, or photographic prints are acceptable. Original transparencies and negatives or, in the case of digital images, a minimum 12.7cm x 17.8cm (5" x 7") 300dpi JPEG of the winning photographs must be available so the picture can be published. Minor burning, dodging and/or colour correction is acceptable. Cropping is acceptable, as are fish-eye lenses. Any changes to the original photograph not itemised here are unacceptable and will render the photograph ineligible for a prize. Photographs must be taken not more than one year before the date of entry. Limit is one entry per person per Category.

NB: By uploading the Entrant's entry to natgeokids.com/uk/photocomp, the Entrant's parent or guardian is giving permission for their child to enter the NG KiDS Photography Competition 2019 and for National Geographic Kids to contact them in the event of their image being longlisted. Winning images will be printed in the magazine and winners may be required to take part in promotional activities. All other entries will be erased once the winners are chosen to protect privacy. All Entrants retain the copyright

of their images, and winning images will only be used within NG KiDS magazine, on natgeokids.com and to promote the competition. Full terms and conditions at natgeokids.com/uk/photocomp

* Children who register will need to have their account approved by a parent or guardian before they can enter.

Turn over to find out more about the awesome prizes!

Nifty know-how COMPOSTITION

This means how you choose to arrange, or 'compose' everything in your photo. There's a fair bit to think about, so here are some handy hints...

What's your subject?

First, you need to decide on the subject of your photo, because photos need to be about something. The subject is the main point of interest in the picture.

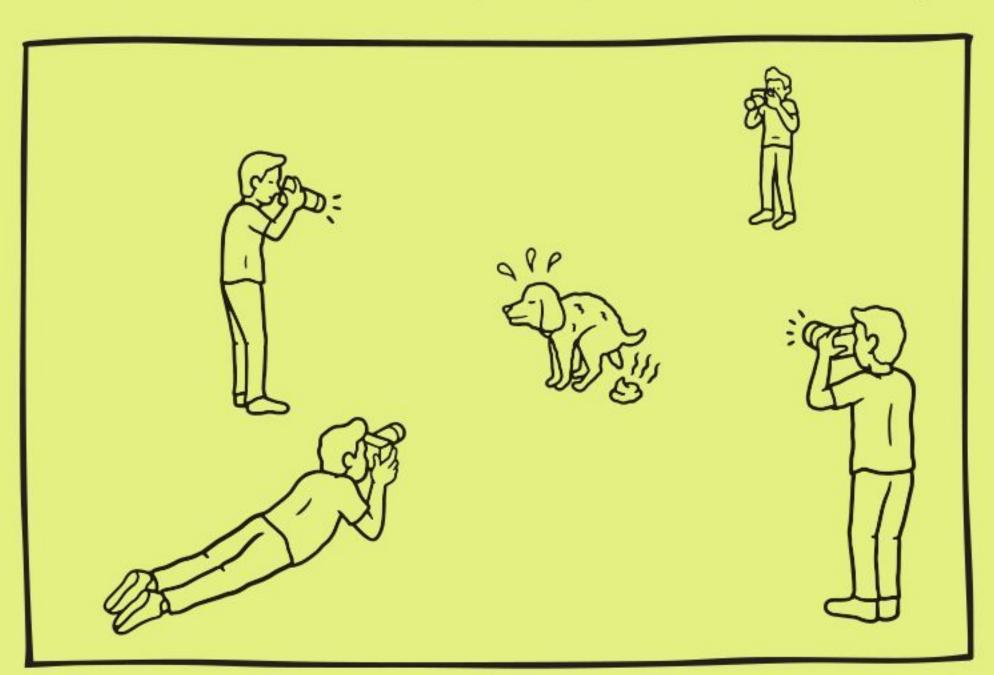
subject? subject?

subject? subject?

Where are you standing?

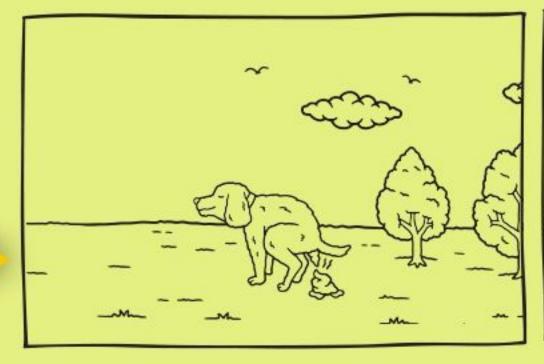
The best photographers are constantly moving about trying to find the best angle of their subject, whether it's a landscape, a person or an object.

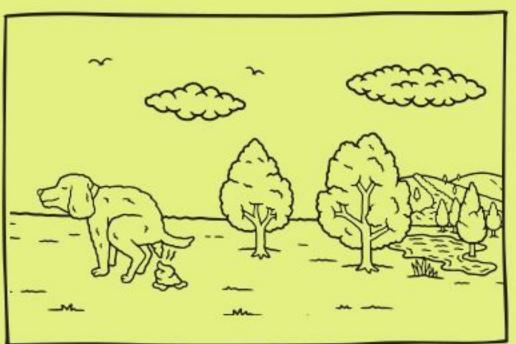
subject?



Where do you position your subject in the picture?

The subject is usually positioned in the middle or to the side of a photo. Placing it in the middle means the subject dominates the image. Having it at the side gives a sense of the surroundings.





2019 PHOTO COMP

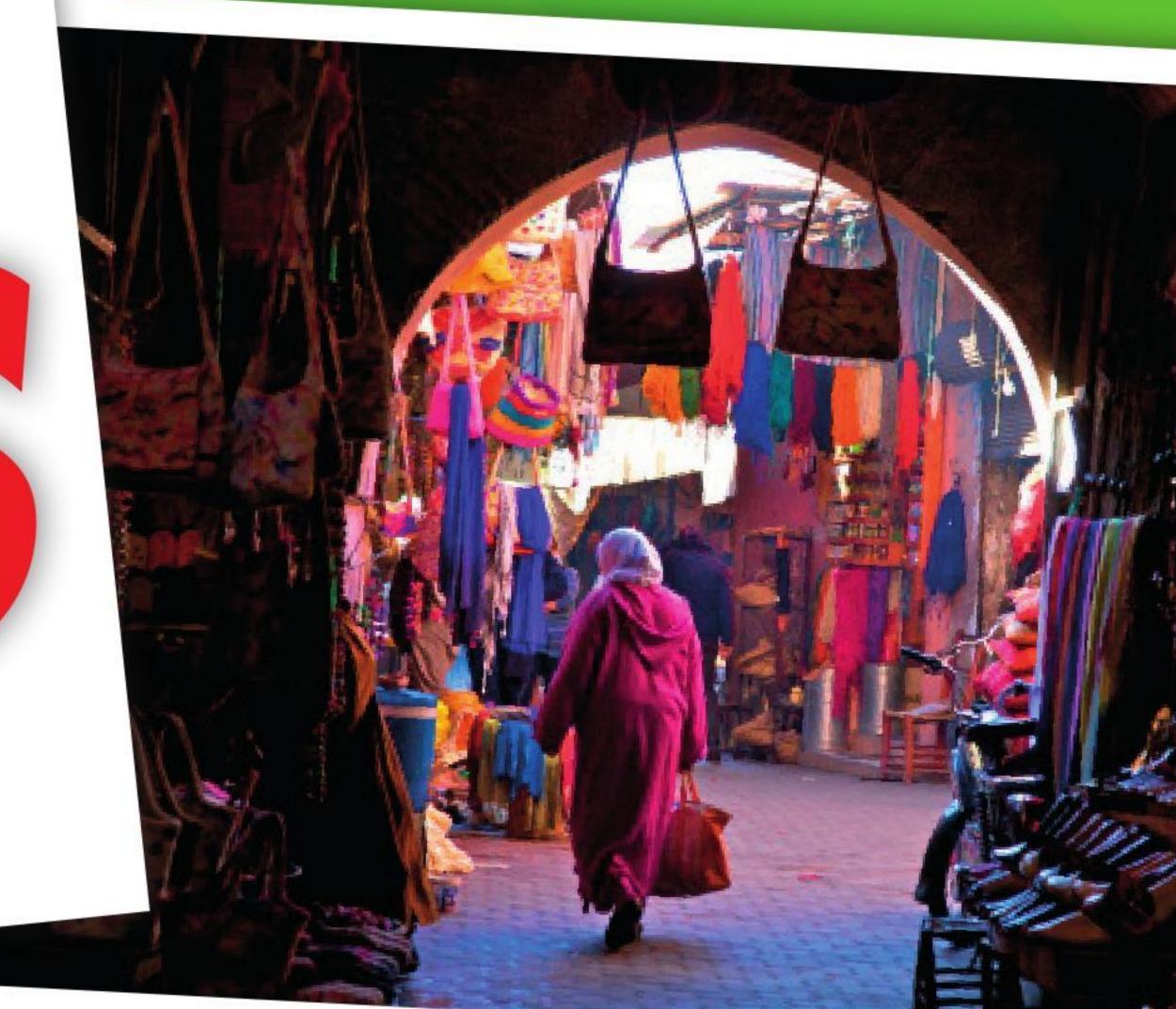
J O U R N E Y S

NATIONAL

with G Adventures

DRIZES PRIME

Check out what you could win!



A FAMILY HOLIDAY IN MOROCCO!

If you're crowned **NG KiDS' Photographer of the Year**, you'll travel with **National Geographic Family Journeys** to **Morocco** in **North Africa**, courtesy of **G Adventures**! The awesome **nine-day tour** will take you from bustling markets to soaring desert dunes. You'll even get a tour around the film studio where scenes from **Star Wars** were filmed!

You'll discover the magic of **Morocco** on this exciting journey of **sights**, **smells** and **sounds**, meeting enchanting **musicians** and **storytellers** while exploring places steeped in **Berber heritage**. Head off on exhilarating **hikes** past

stunning rock formations, climb windswept sand dunes, and uncover ancient secrets in green oases and grand palaces. It's the adventure of a lifetime!

Flying in to the city of Marrakech, you and your family will then

travel south through the stunning valleys of the **High Atlas Mountains**,

arriving in Ouarzazate – known as the 'gateway to the Sahara'. There you'll step behind the scenes at the Atlas Film Studios to see how the surrounding desert has starred in movies such as Star Wars and Gladiator. Cool!

You'll go star-gazing in the desert, hop aboard a 4x4 to ride across the breathtaking Erg Chebbi dunes and search for fossils left behind by an ancient sea! Visit a Berber village to dine on yummy local food (including Berber pizza!), and then learn about the wonderful rock formations at Dades Gorge. You could even go camel riding! Explore the ancient fortified village of Aït Ben Haddou, a UNESCO World Heritage

site, and impress your folks with your culinary skills at the **tagine cooking class!** Then, immerse yourself in the 'red city' of **Marrakech**, touring its **maze** of tiny streets, alleyways, markets and museums.



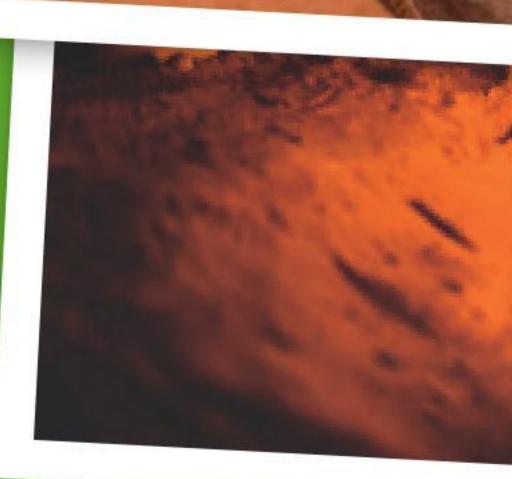
- To find out more about this amazing trip, head to tinyurl.com/ GAdventuresMorocco
- To learn about other National Geographic Family Journeys with G Adventures, trek over to tinyurl.com/ GAdventuresNatGeoFamily



PRIZE!







Spend time

in a souk

CATEGORY PRIZES!

Cool cameras!

All three category winners will shoot off with one of these amazing **Nikon COOLPIX W150 cameras**, that are built to go anywhere! The compact **waterproof**,

shockproof, **freeze-proof** and (handily for the desert) **sand-proof** adventure camera is so easy to use, anyone can capture superb photos and videos with it! Plus, it comes in five awesome colours and features an array of fun shooting modes – perfect for your photography adventures!

Find out more at tinyurl.com/nikoncoolpixw150





Goody bags!

And that's not all! Each of our winners – along with one runner-up in each category – will scoop a bumper bunch of goodies, including a pair of National Geographic kids' binoculars from Bresser, three National Geographic Mini Dig Kits from Bandai and the Be a Super Awesome Photographer book by Henry Carroll!

Find out more about the binoculars at bresseruk.com and visit tinyurl.com/bandaiNG to check out the Dig Kits! Learn about the book at laurenceking.com/childrens







Play in the breathtaking desert dunes





RIERVIEW

NG KiDS asks awardwinning photographer Ami Vitale about her life and career - and she



As a young woman, I was painfully **shy**, gawky and introverted. But when I picked up a camera, aged **13**, it gave me a reason to interact with people, and, later, it became my passport to engage with the world around me.

What research do you do to create a meaningful image?

I try to learn as much as I can about the places I'm travelling to and the people there before I even get off the plane. Once I arrive, I listen, watch and ask questions. After I earn their trust, people will usually reveal something special that creates more than just a pretty image!

Do your projects take a lot of time to complete?

My best work has taken years to make! **Time** is really the most important aspect to making great images. I go back to the same places for years, and that's how I was able to capture the final moments when the **last male white rhino**, named **Sudan**, passed away last year.

That must have been so sad!
Personally witnessing an
extinction affected me deeply.
This is not just a 'story' to me.
If the killing continues, it's
possible that all species of

rhinos will be extinct within our lifetimes. If that happens, we suffer more than loss of ecosystem health. We suffer a loss of imagination, a loss of wonder, a loss of beautiful possibilities. Saving nature is really about saving ourselves. Sudan the rhino taught me that.

When you travel to a new place, how do you decide who and what to photograph? I take time to get to know the community there and establish **strong bonds**. Only then, do the people and stories emerge.



It's really about people learning to trust you, and believing that you will tell their story with respect and honesty.

Some people don't like having their photo taken. How do you get around that?

You don't! If they really don't want their photo taken, never be pushy or sneaky.

Respect is essential. I wait for people to open up their lives to me and reveal what they want to share.

Do you have any tips for taking claws great pictures of people? work Don't have your camera pressed up against your face the whole time. And long lenses might be great for wildlife but they're

very intimidating to people!
What are the important things to think about when taking animal photos?

"I nearly died

of cuteness

overload!"

Always respect wildlife. I think people can often forget the 'wild' in 'wildlife'. Learn as much as you can about the creatures and their habitats before you go out to photograph them. Don't get too close, or chase or bait them. Good advice! Your new project, Panda Love, is an adorable and funny photo

series of baby giant pandas being prepared for release into the wild in China. Tell us more!

I nearly died of **cuteness overload** but, surprisingly, it was one of the most challenging stories I've ever worked on. What was the hardest part?

The biggest challenge was getting access! This is a very rare, finicky, vulnerable animal with teeth and claws. With only a few thousand in the world, the Chinese treat it as a national symbol, and each panda is closely protected and watched.

So how did you do it?!

of all species

is intertwined

with our

own."

I had to learn to **blend in** and **think like a panda**! So, to get close
enough to take these photos, I had
to **wear a panda costume** that
was scented with **panda urine**,
just like the staff would wear!

Haha! Are the babies doing well now? Yes, they're finally having success! The slow and steady increase in the population of giant pandas is thanks to the efforts of Chinese scientists and conservationists. China is investing billions into creating more habitat – it's one of the few countries where forest

coverage is growing!

Great news! Apart from dressing up as a panda, are there any other crazy things you've had to do to get an image?
Um yes... many! I've dressed as a tree, dodged grenades, climbed into glacial crevices, scaled 14,000-foot (4,200-m) mountains, been underwater, and ridden elephants, horses, camels, balloons and bikes. The list is endless.

Wow! Finally, have you ever been in danger on an assignment?

I took war photographs for ten years which led to some extremely dangerous, near-death experiences. But I told my parents I was doing travel stories – I didn't want to worry them!

Brave stuff! Thanks for sharing your stories and pictures with us, Ami!





HERO OF THE MO

Hey NGK! I'm passionate about the planet and making sure it's a safe place for all the animals and people who live on it! I strike each Friday outside Manchester Town Hall for 'Fridays For Future', and I also called for Manchester City Council to declare a climate emergency. I've taken part in every youth climate strike, in fact! I know some children cannot strike so I wanted to say that every small change they make to help the planet is worth it. Don't give up! Lillia, 10

Well done, Lillia! We're so proud of all the young people doing their bit for the future of our planet!





Q What do you call a chicken that looks at a lettuce? A Chicken sees-a-salad! Joke sent in by John

ZONE!

I drew this picture of a **tiger**. I love the combination of its orange and black fur and its sharp teeth! I hope you like it, too. Tigers are beautiful creatures!

Arlo, 8

We think your drawing is fierce, Arlo. Well done!



HA

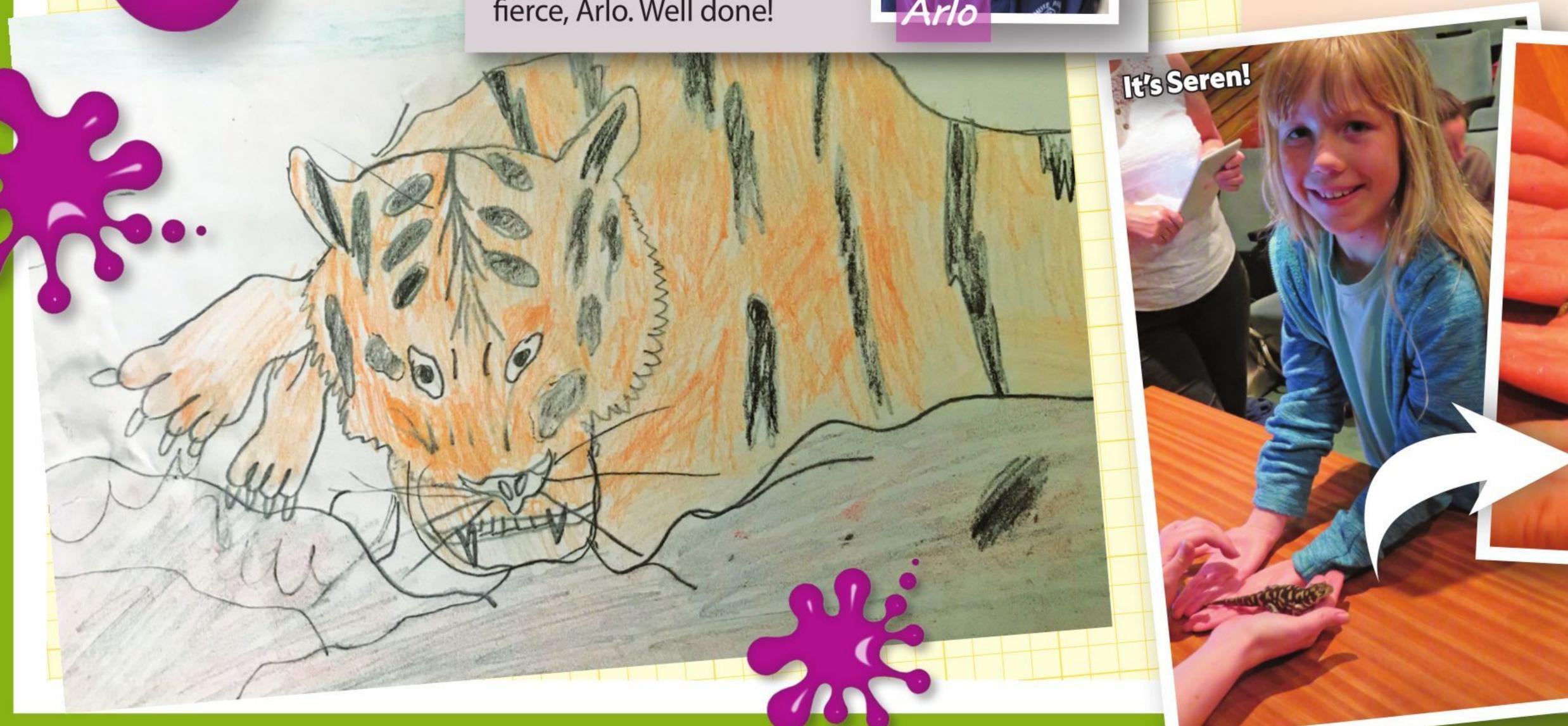
HA

Hi NG KiDS!

I recently went on a trip to the Wildfowl & Wetlands Trust in Slimbridge, Gloucester, where I saw otters and lots of different types of birds. I also fed the ducks and geese! My favourite part of the day was the talk on amphibians. I got to see a natterjack toad, which is a really rare species, and hold this cool tiger salamander!

Seren, 9

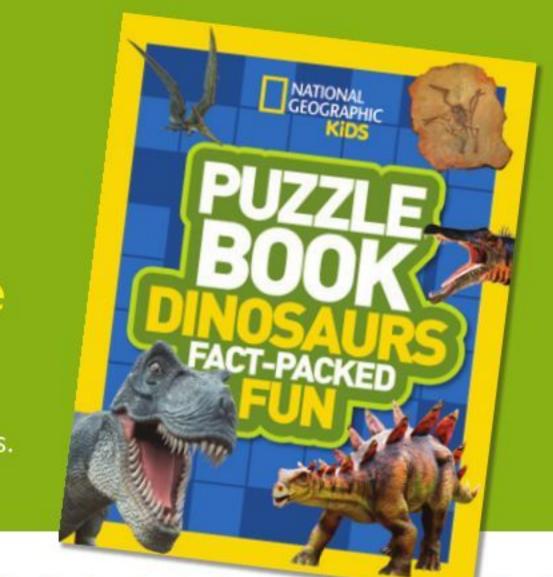
What a wild day, Seren! Did you know that tiger salamanders can live for 25 years?!



We want to hear from YOU! Send in your artwork, jokes, craft pics and pet photos; tell us about your wildlife sightings, hobbies and interests, and share your opinions! Head to natgeokids.com/uk, email kids@ngkids.co.uk or write to the address on page 3. A selection will be printed here. Every reader on these pages will receive a copy of the Puzzle Book of Dinosaurs from NG KiDS Books!

Available at natgeokidsbooks.co.uk

We're sorry, but we won't be able to return your art or photos.





Coco the long-tailed chinchilla, sent in by Boe, 8

LAST YEAR'S PHOTO COMP WINNER!

I won last year's National Geographic Kids Photography Competition – the prize was a family holiday to Borneo in Southeast Asia. We stayed at the Shangri-La's Rasa Ria Resort & **Spa**, and it was such a memorable experience.

I saw wildlife I would never even have dreamed of seeing in the wild, including tarantulas, fireflies, bearcats and many incredible varieties of snake! I also got to see orangutans at the Sepilok Orangutan Rehabilitation Centre. Thank you so much, NG KiDS, for the best holiday of my life! **Anna**, 12

It's great to hear that you had such a fantastic time, Anna!

Anna won the 201 comp with this picture

> Turn to page 30 to enter this year's photo comp! You could win a **holiday** to Morocco!

SEPILOK ORANG UTAI REHABILITATION CENTR



Before heading to Borneo, Anna and her brother Tom raised money for orangutans and then met the rehabilitation centre's staff!

HOBBY TALK

Dear NG KiDS, I love heading out exploring! This year my family and I went to **Dartmoor National** Park to practise a new activity which I really enjoy - orienteering! I was given a lesson by my dad, who is a pilot, on how to read a map. Then we went on an adventure where I was the guide! We walked five miles to the local pub then walked back - no car, so no pollution! Enzo, 9

Impressive stuff, Enzo. Keep exploring!



POETRY CORNER

And then they were gone Centuries ago, the world was still here,

But then along we came, with an axe and a spear, Down to the ground again and again, I can't even imagine the pain.

Animals were dying, and even worse today Plastic is polluting and killing our bay, No words can be said unless we stand up, Together, forever so strong and united we stand. Phoebe, 10

Interesting poem, Phoebe – and a really important message!

LOVE OUR PLANET

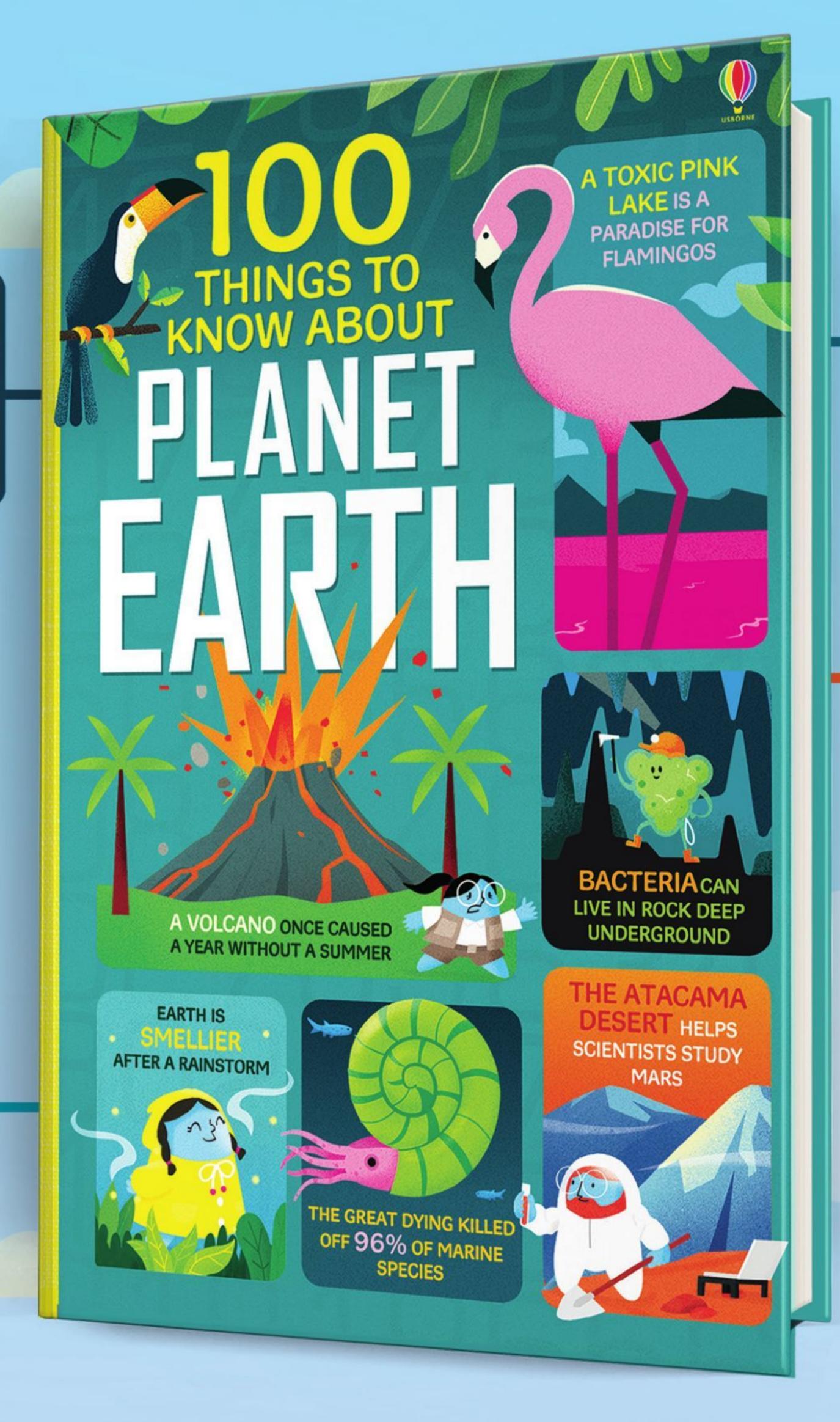


PREPARE TO BE AMAZED BY OUR WONDERFUL WORLD

SHYNESS
PREVENTS SOME
TREES FROM
TOUCHING

ONE TRUCKLOAD
OF PLASTIC IS
DUMPED
IN OUR OCEANS
EVERY MINUTE

WE'RE CURRENTLY LIVING IN AN ICE AGE



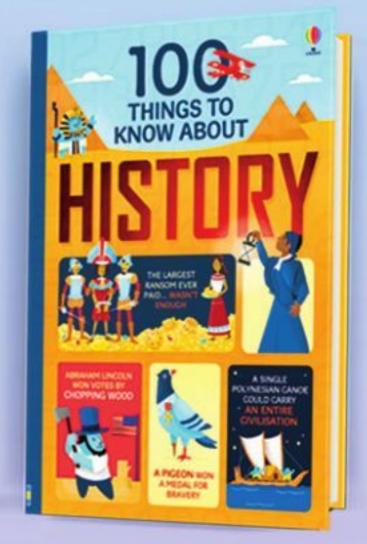
THE WORLD'S
BIGGEST
WATERFALL
IS UNDERWATER

RAIN SOMETIMES
FALLS RED

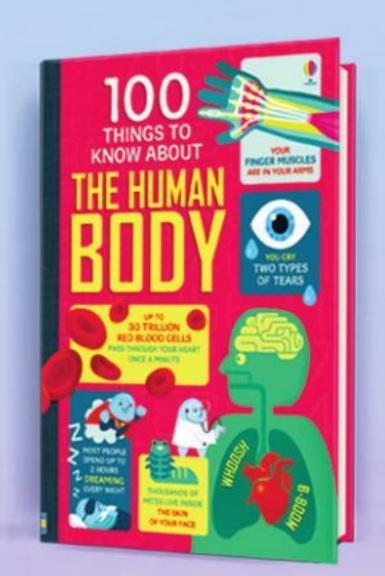
DISCOVER
SIMPLE WAYS
YOU CAN
PROTECT OUR
PLANET

ALSO IN THE 100 THINGS TO KNOW SERIES

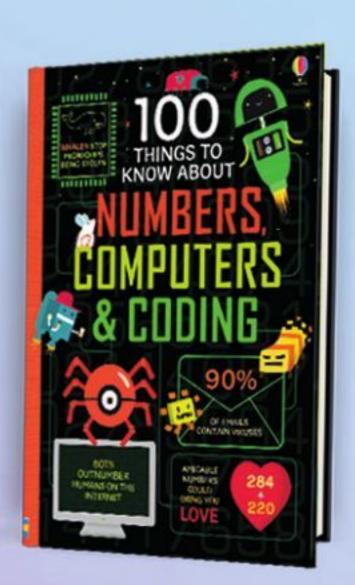














AVAILABLE NOW IN ALL GOOD BOOKSHOPS.

crazy facts about the world

Italy's famous Leaning Tower of Pisa used to tilt in the opposite direction.

About one-tenth of the Earth's surface is covered with ice.

New Zealand has more sheep than people.

Australia's **Great Barrier** Reef can be

Death Valley, California, is the hottest place in North America.

The Nile River is about the same length as 65,000 football pitches.

possible to snow ski in Hawaii.

Enter on page 47 or online at natgeokids.com

RAVENSBURGER

Discover the wonder of our solar system with these awesome 3-D puzzles from Ravensburger.

Puzzling takes on a new dimension with the Planetary Solar System 3-D Puzzle (below) which includes eight scaled planets. Use the stands and display poster to show off your creations – or try using the kit to create an epic **Sun mobile!** This **informative** set also includes loads of facts for budding astronomers to learn.

The World Map 3-D puzzle (right) lets you explore our very own planet in amazing detail. With 180 pieces and its very own **stand**, this great globe is out of this world!

Six space-mad readers will scoop both puzzle sets.

Available from amazon.co.uk

Q Can you unscramble these letters to reveal a planet in our solar system? **RPJEUTI**



puzzle 8







Get set for some super sleuthing with these cool detective kits from Thames & Kosmos. The Master Detective Toolkit is a briefcase filled with everything you need to gather evidence and solve crimes.

Multi-Spy features epic detective essentials. Cryptex lets you hide clues from prying eyes, and if someone still tries to sneak

a peek, Alarm-System will emit a noisy warning signal. Listening-**Spy** is an awesome **eavesdropping** device, and UV-Light Code lets you communicate using invisible ink!

Six readers will win all six kits!

The Master Detective Toolkit is available from **Smyths**. All other sets from Amazon

Q Which of these is a fictional detective created by Arthur **Conan Doyle?** a) Padlock Holmes **b)** Sherlock Holmes

c) Bikelock Holmes

WIN! THE MURDER MOST UNLADYLIKE

In **Top Marks for Murder** - the latest book in **Robin** Stevens' gripping Murder Most Unladylike series – Daisy and Hazel are finally back at **Deepdean**, as their school prepares for its 50th anniversary festivities.

But all is not well, and soon something shocking happens in the woods close by. As parents descend upon the school, old grudges, rivalries and secrets begin to surface, and soon Deepdean's future is at stake. Can the girls solve the case and save their school?

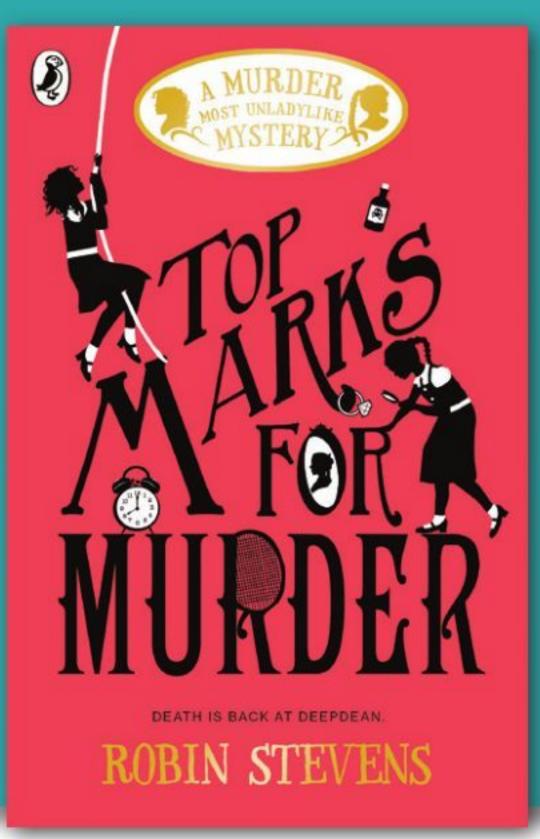
Ten bookworms will win **Top Marks for Murder**, along with the other seven books in the brilliant *Murder Most* Unladylike series.

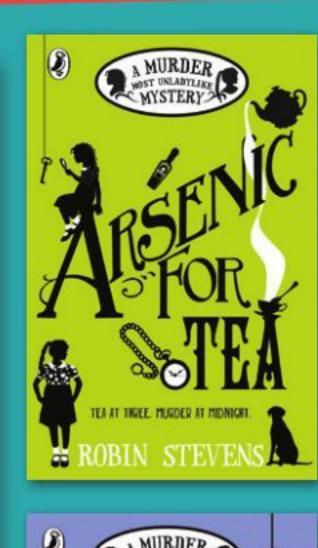
Available in all good bookshops

Which of these represents a 50th anniversary?

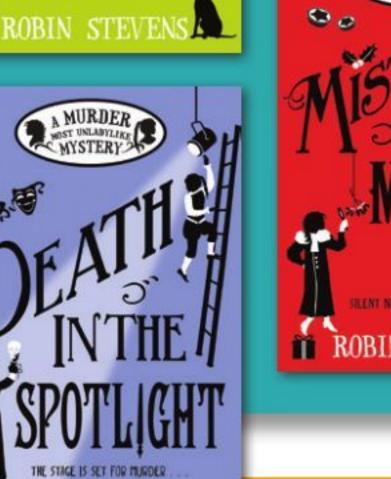
- a) Gold
- b) Coal
- c) Plastic

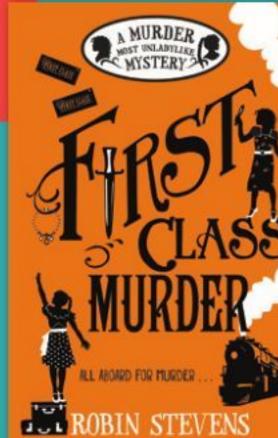


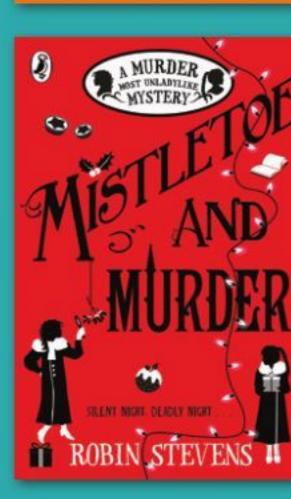




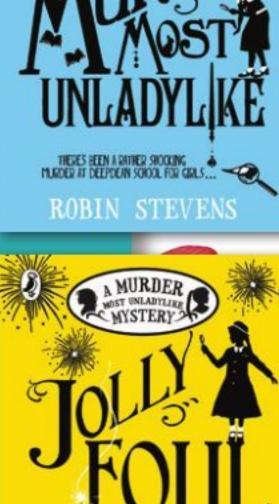
ROBIN STEVENS











ROBIN STEVENS

ENTER ALL COMPS ON PAGE

chances to win!

NAT GEO RECYCLED DUYETS!

Help the environment while you snooze with these super new National Geographic single duvet and pillowcase sets from Dreamtex!

To help promote **National** Geographic's Planet or Plastic mission, every duvet is made from a special material, containing recycled plastic bottles. Up to 12 bottles are in each **single duvet** set. How amazing is that?!

The reversible **Ocean Life** design features a glow-in-thedark jellyfish and facts about

deep sea creatures, and the Raptor duvet is perfect for any dino lovers out there!

Nine winners will bag both these eco-friendly duvet sets!

- Available online and at major UK retailers
- Which of these creatures might you find in the deep sea?
- a) Giant squid
- b) Giant panda
- c) Pygmy hippo



AROBOALIVE BUNDLE Imagine owning your very own robot pet. Well with **ROBO ALIVE** from **Zuru**, you can! The Lurking Lizard (right) has big reflective eyes for spotting 'prey'. Using its motor and motion tilt sensor,

it scurries along at impressive speeds to chase down grub.

The Slithering Snake catches critters to 'eat', too. Watch as this master of stealth silently slithers along the ground, flicking its **tongue** as it hunts for its next meal.

The mighty **Dragon** walks, roars, gnashes its teeth, rotates its head, moves its wings and, mostly importantly, 'breathes fire'. Whoa!

Nine lucky readers will win all three ROBO ALIVE pets. Head to roboalive.zuru.com for more awesome animals!



MONOPOLY

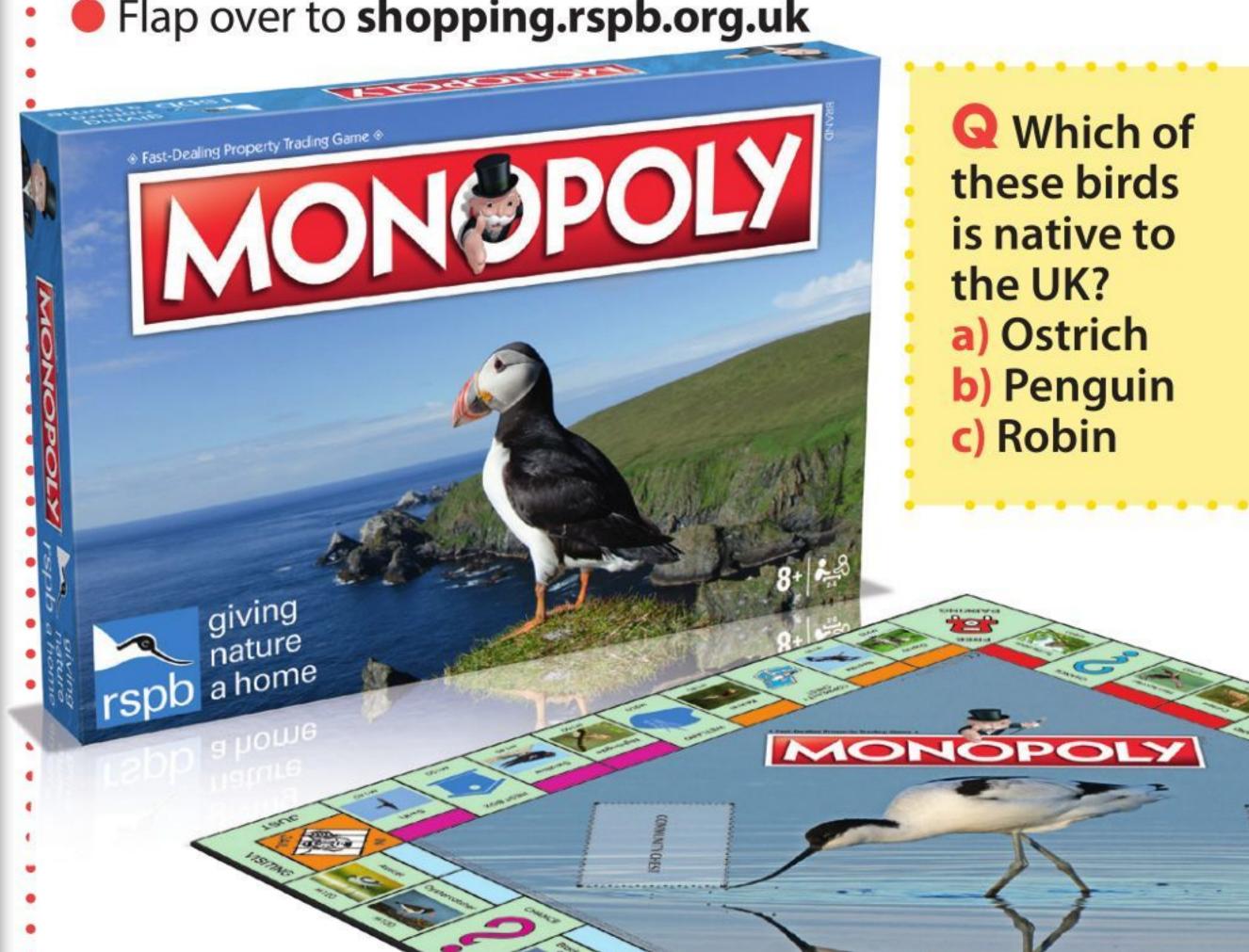
Forget expanding your pretend property empire and try your hand at conservation instead, in the brill new RSPB Monopoly board game. What a tweet!

In this egg-citing new version of the classic family game, players must work their way around the board, collecting the sites of stunning **UK-native birds** and visiting habitats such as woodlands, wetlands and coastal regions.

The Community and Chance cards will leave you feeling chirpy, too, as they've been replaced with lovely naturerelated activities!

Fifteen readers will fly off with RSPB Monopoly.

Flap over to **shopping.rspb.org.uk**



AS YOU PASS

JOIN THE ADVENTURE!



For thousands of years, an ancient city has kept its secrets sealed within stone walls. Who knows what dangers lie beyond the towering pillars and carved symbols of the past? Cruz Coronado is about to find out in *The Double Helix*, book three of the thrilling seven-book adventure series **Explorer**Academy. Aboard their classroom at sea, Cruz and his team Cousteau classmates continue their education and their secret mission. And the stakes get even higher when Cruz receives a warning that someone close to him is working for the enemy!

The exciting mystery, the secret puzzle, and the breathtaking adventure made me read it again and again. I can hardly wait for the next one.

-MARIAM, AGE 11

ALSO CHECK OUT THIS EXPLORER ACADEMY ACTIVITY BOOK!

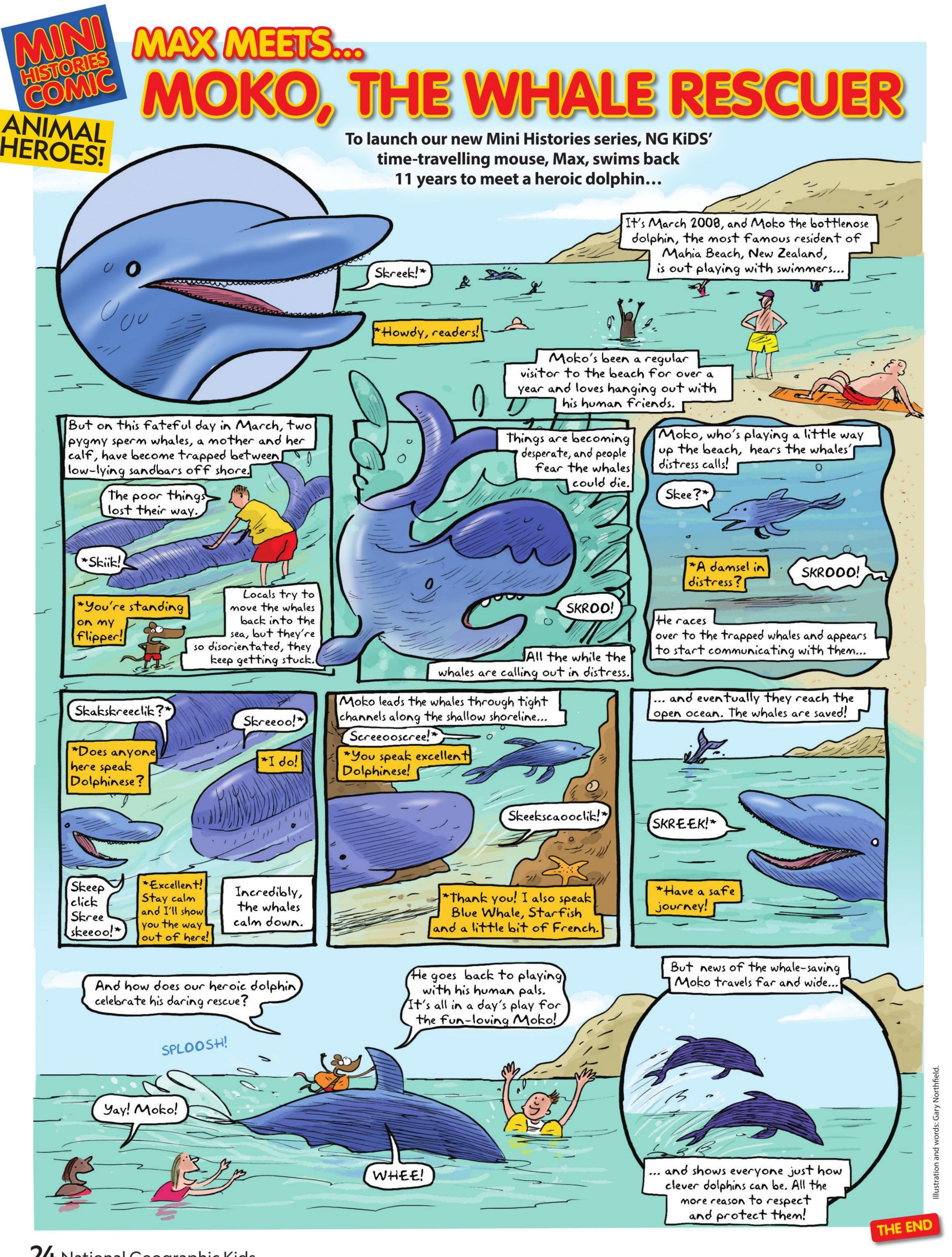


AVAILABLE FROM ALL GOOD BOOKSHOPS and online at www.natgeokidsbooks.co.uk

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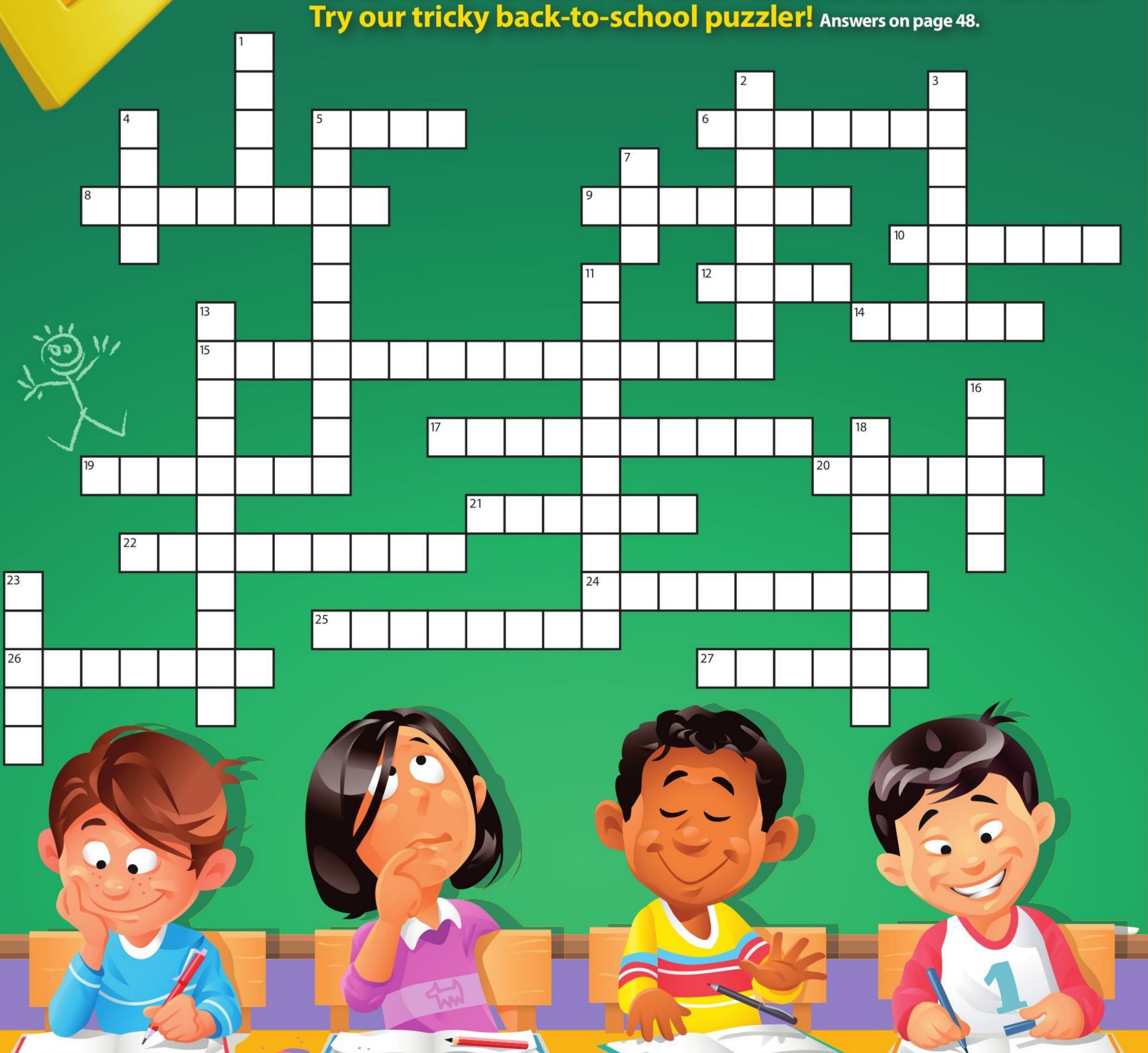






GAMES, LAUGHS, AND LOTS TO DO!

COOL SCHOOL CROSSWORD



ACROSS

- A doing word (4)
- Name of a six-sided shape (7)
- When you take away from a number (8)
- Another word for an uppercase letter (7)
- 10 The letters A, E, I, O and U are all _____ (6)
- 12 Something you read (4)
- 14 Punctuation mark to show a pause (5)
- Punctuation mark to show surprise (11, 4)
- Book that helps you spell words (10)
- The study of the past (7)

- 20 Popular online search engine (6)
- You can sharpen this writing tool (6)
- 22 Where your lessons are usually held (9)
- 24 Transport to and from lessons (6, 3)
- 25 A three sided shape (8)
- 26 Person who's in charge of a class or subject (7)
- 27 Use this to rub out a mistake on paper (6)

- You can write, draw or paint on this (5)
- A schoolbook containing information (8)

- Smart school outfit (7)
- An object or thing is a _____(4)
- The range of words you use (10)
- Use this to find countries (3)
- Where you keep your writing tools (6, 4)
- Person who's in charge of the school (4, 7)
- 16 Use this to measure short distances (5)
- It has a keyboard, a mouse and a screen (8)
- 23 Numbers are studied in this subject (5)



SPRAY 'N' WASH

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



This weekend, my mother, sister and I_ our adjective past-tense verb type of transportation to a car wash. As a(n) waved us in, we heard a(n)_ . A huge funny sound type of job cars!" !" we yelled. Using its was exclamation animal verb ending in -ing , it wiped the back of the _ in front of us. dripped from body part something gross noun strapped to its hoof as it sprayed with its trunk. Then the creature a(n)noun noun . Who knows where that the cars with its ears. Everyone was covered in type of liquid past-tense verb came from – but our car has never been so same animal adjective



FUNSIUE IT

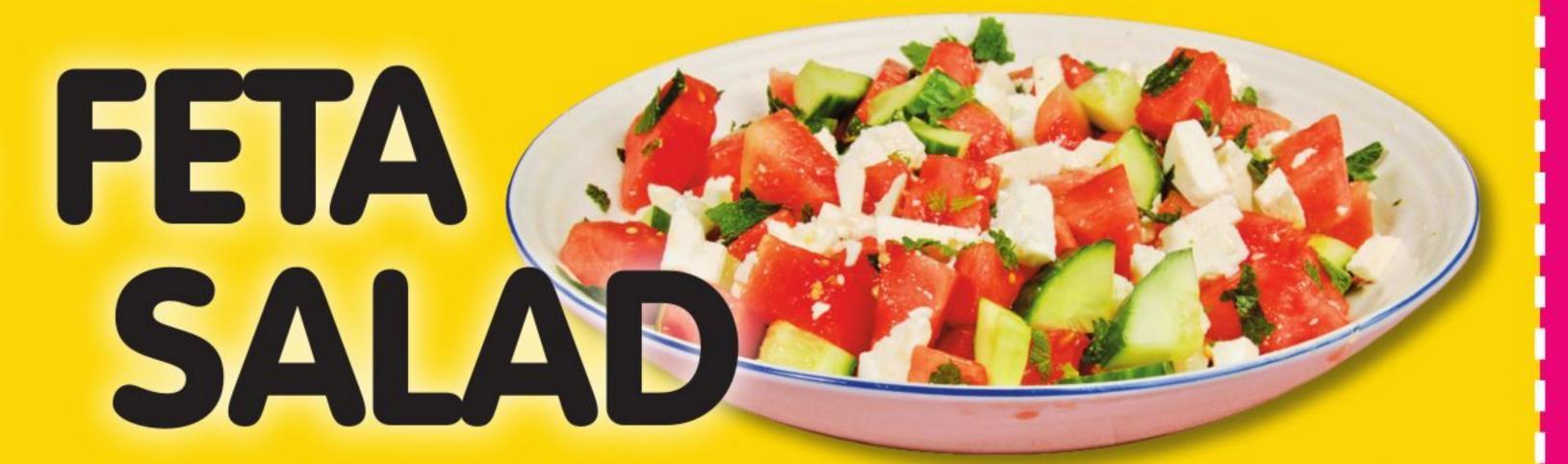
WATERMELON &

Sweet juicy watermelon and salty cheese are an unusual but very tasty combo!



Photos: Valerie Rowles. With thanks to Isa

Finally, chop or crumble the feta cheese into small bits and sprinkle over the top. Tuck in!



Get Experimental!

SINGING WINE GLASSES

Find out how to make a musical instrument out of a glass...

1 Ask an adult to find you a selection of glasses with stems. First try tapping them gently with a pencil or spoon. Listen to the sounds they make.

2 Now try a different way of making sounds. Dip your fingers in some water, and holding the base steady, run your fingers around the rim of a glass. Start gently, and then apply more pressure until you get a good note.

3 Try the same thing with **different types** of glasses. Do they make different notes? Next, try **pouring water** into a glass. What do you notice? Can you try and make a particular note?





What's going on?

All sounds are made by making something vibrate. As you move your fingers around the rim of the glass, they repeatedly slip and slide off the glass. And it's this that makes the glass vibrate and produces the notes.

Changing the amount of water in the glass changes the way it vibrates and this alters the sound you hear. The more fluid in a glass, the lower the pitch of the note. If you try it with a really full glass and look closely you can see ripples on the surface of the water. Cool!

This fun home science experiment is from our pals at the Royal Institution. Check out more exciting activities at rigb.org/families and head online to take a look at their amazing family theatre shows.

NATIONAL GEOGRAPHIC

COMPETITION ENTRY COUPON

Just tick the box of any competitions you want to enter!

PAGE 10-11 WHAT'S UP?
Asterix goodies This year is the anniversary of the Asterix and Obelix comics. But how many years is it since the first one was published in France? 6 60 600 National Trust day passes How long ago was Corfe Castle in Dorset built? 10 years 1,000 years 100,000 years Book bundle Which of these is NOT a breed of rabbit? Fuzzy lop Mini rex Chihuahua
PAGE 40-41 WIN IT!
Ravensburger 3-D puzzles Can you unscramble these letters to reveal a planet in our solar system? RPJEUTI Thames & Kosmos detective kits Which of these is a fictional detective created by Arthur Conan Doyle?
Padlock Holmes Sherlock Holmes Bikelock Holmes
The Murder Most Unladylike book series Which of these represents a 50th anniversary? Gold Coal Plastic
Nat Geo recycled duvets! Which of these creatures might you find in the deep sea? Giant squid \square Giant panda \square Pygmy hippo \square
ROBO ALIVE bundle Which of these is NOT a type of lizard? Gecko Chameleon Tortoise
RSPB Monopoly Which of these birds is native to the UK? Ostrich Penguin Robin

Winners will be chosen at random from correct entries. GOOD LUCK!

> Now turn over and answer some easy questions!

OVER TO YOU! FUNSIUFE

Your chance to tell us what you think

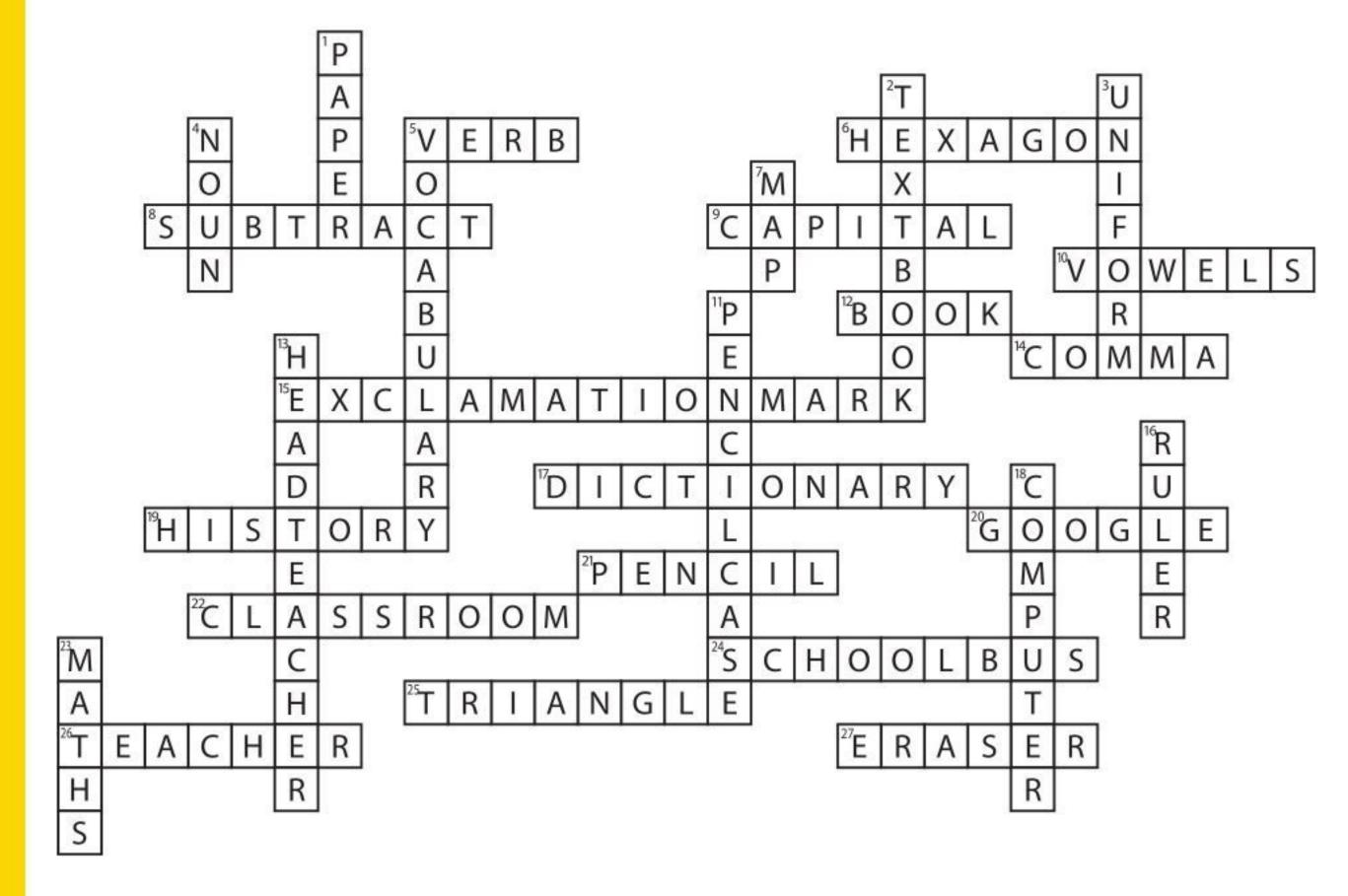
What made you buy NG KiDS this month?
 If you subscribe, please tick this box The cover photo (sea otter) 227 Prizes Inside! How Sea Otters Protect The Planet! Keep Earth Wild Albert Einstein Win A Family Holiday To Morocco!
What's the best thing about this issue?
What's your least favourite thing about this issue?
What are you doing to help the planet?
WRITE TO US!
Do YOU want to appear on our Junior Explorers' Club pages? Ask your parent or guardian to email your letters, drawings and photos to us at kids@ngkids.co.uk or post them to the address below – and we could print them in Nat Geo Kids!
YOUR DETAILS!
Name
Address
Postcode
If you are under the age of 13, please ask a
parent or guardian to complete this section:
Parent/guardian's name
Parent/guardian's signature
Telephone
- Email
I acknowledge my child's participation in entering these
competitions, the reader survey and/or the JEC page.
We like to stay in touch with our readers to tell them about all of the
latest cool offers and awesome news from Nat Geo Kids. We won't share
your information with third parties – unless you've won a comp! Ask your parent or guardian to tick this box if they're happy for us and prize
providers to contact you regarding comp entries and your appearance in the mag Ask your parent or guardian to tick this box if they'd like to receive our
email newsletter
Cut along the dotted line and send this entry coupon to: NG KiDS Competitions September 2019 issue, Third Floor,

12-14 Berry Street, London, EC1V 0AU

Hurry – the closing date for entries is 26 September 2019!

NATIONAL GEOGRAPHIC KIDS competitions are open to residents of the UK, Eire and the Channel Islands, except employees of Creature Media Ltd, National Geographic Society, and their families, or any associated companies. Entrants to National Geographic Kids contests must be 16 or under. No purchase necessary. Only one competition entry per person. Winners will be the first correct entries drawn after the closing dates. The editor's decision is final. No responsibility can be taken for entries lost or damaged in transit. A list of winners will be available by contacting National Geographic Kids no earlier than six weeks (unless otherwise stated) after the close of the competition. Only the surname and county of the winners will be disclosed. Prizes subject to availability. No cash alternative for any prizes will be offered. Winners may be required to partake in media activity relating to the competitions. We will only share winners' personal details with third parties if they have won a competition, in order for your them to receive their prize. These details are to be used for prize-giving only and not marketing purposes. For full details of our privacy policy, please go to natgeokids.com/privacy

COOL SCHOOL CROSSWORD (page 44)



THE LAST LAUGH

Q. What's an otter's favourite kind of car? A. A Furr-ari!

Q. What did the otter say to Justin Beaver? A. Can I get your otter-graph!

Q. Why did the sea otter apply for a job at NASA? A. It wanted to visit otter space!

Q. Did you hear about the otters that got in a fight? A. It was otter chaos!

Q. Why did the photo get arrested? A. It was framed!

> Q. What do you call a photo taken by a cat? A. A paw-trait!

Q. What do you call a tired photographer? A. Shuttered!

> Q. Why did the photographer quit his job? A. He'd lost his focus!



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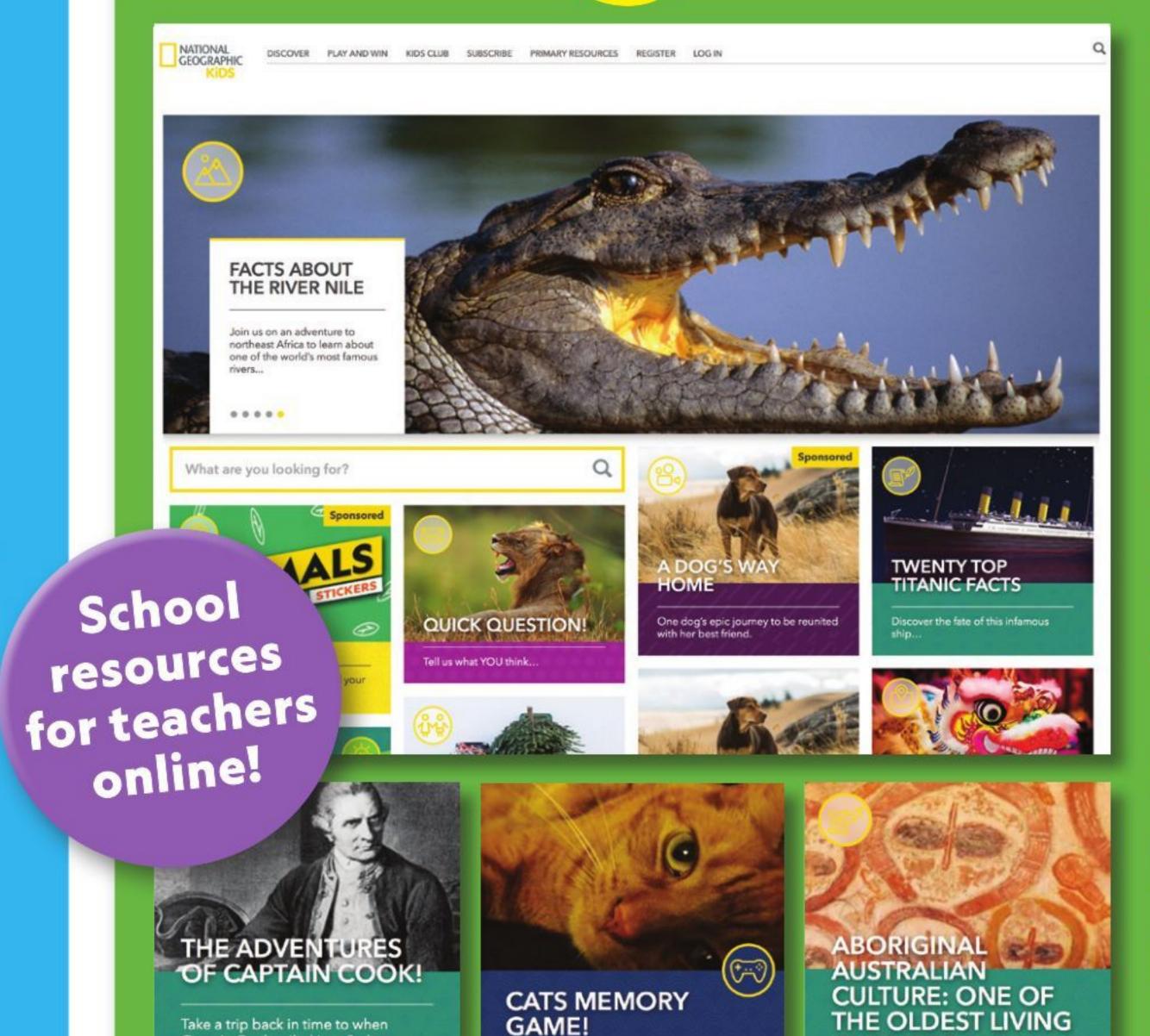


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Do you have what it takes to solve this

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Take a trip back in time to when Captain Cook sailed into Sydney Bigger, better and brighter than ever!

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Check out these outrageous facts...

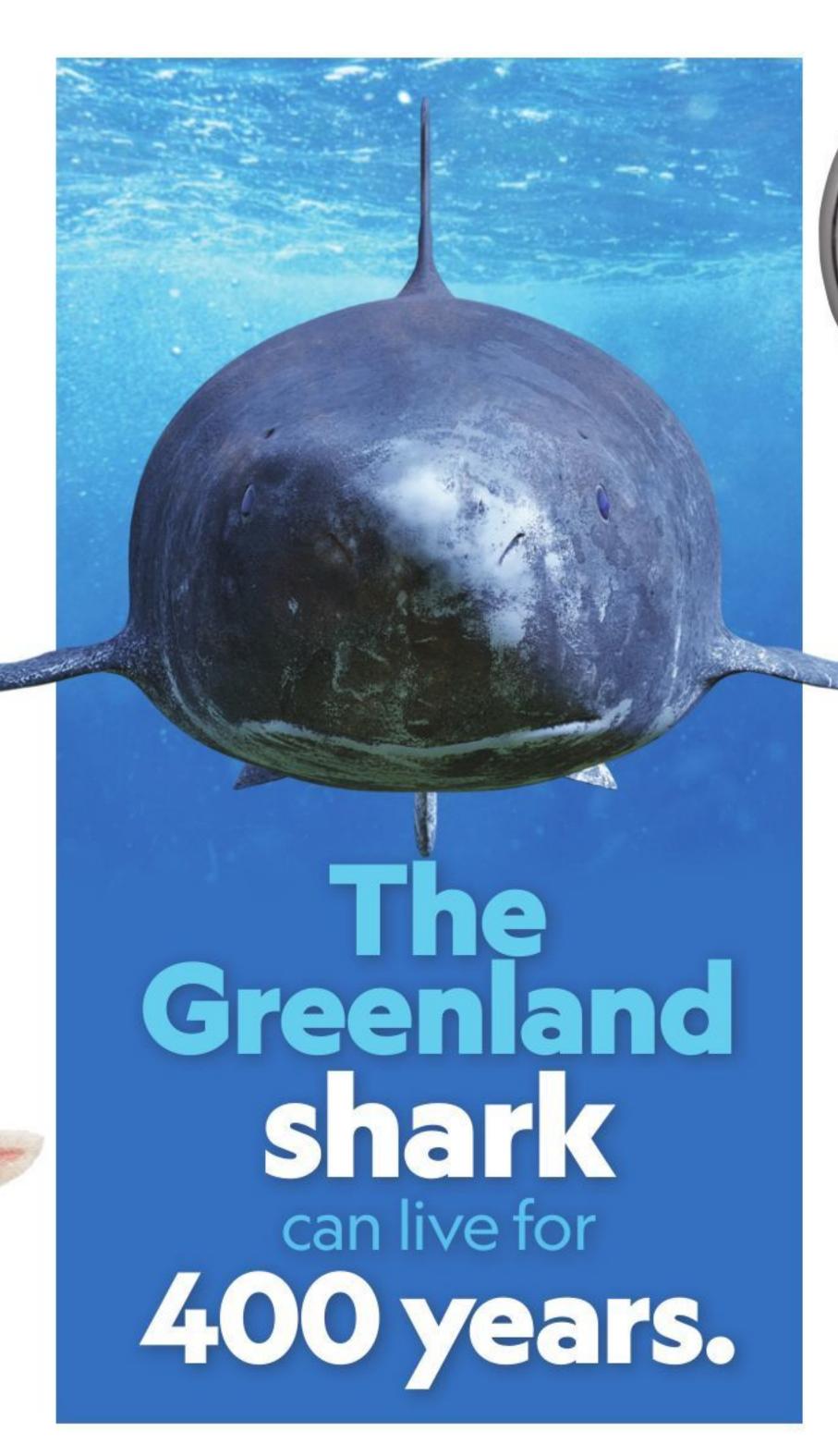
Porphyrophobia is the fear of purple.

You can buy SOap that smells like bacon frying.



Blackpool Pleasure Beach.

A GIEP is part



People flush about 27,000 trees' worth of tollet paper down the drain every day.

A Norwegian man grew a
5.3-metre-long

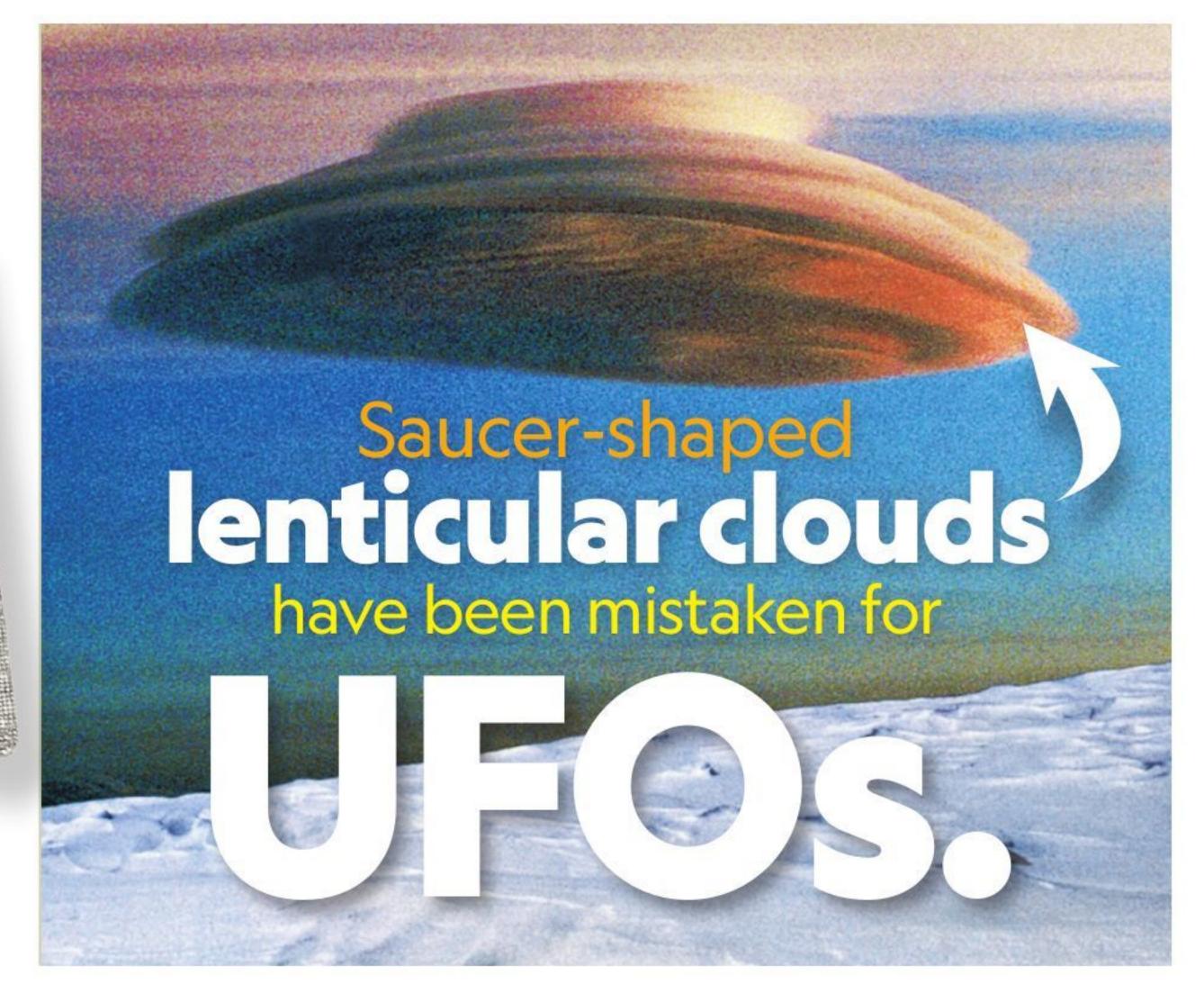
OCCIC

That's longer than
an ice-cream van from
bumper to bumper.

An lowa teenager made her

Orom dress

out of chewing gum wrappers.



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BARMY BOOK BUNDLE

Get ready to **giggle** with this pair of brill books by author **Sam Copeland**.

Charlie McGuffin is a kid with a cool **secret power** – he can change into crazy creatures! The trouble is, Charlie has absolutely **no control** over *when* he changes into a flea or a pigeon – or even a rhino!

In **Charlie Changes into a Chicken**, Charlie tries to get to grips with his new abilities, while he worries about a mean bully, the school play and his hospitalised brother. And in the sequel, *Charlie Turns into a T-Rex*, things don't get any easier, as he sets out to recover some **stolen gold** and save his dad's business.

The first **50** new **NG KiDS subscribers** this month will receive **both books**!

: • Find out more at puffin.co.uk



Please note, subscription copies of Nat Geo Kids magazine do not include covermounted gifts but do include collectable fact cards.

* The first 50 people to subscribe to the magazine will receive the above free gift, subject to availability. Thereafter, all new subscribers to the magazine will receive one free, random stock gift. Offer ends 15 November 2019. For full prices and Ts&Cs please visit natgeokids.com

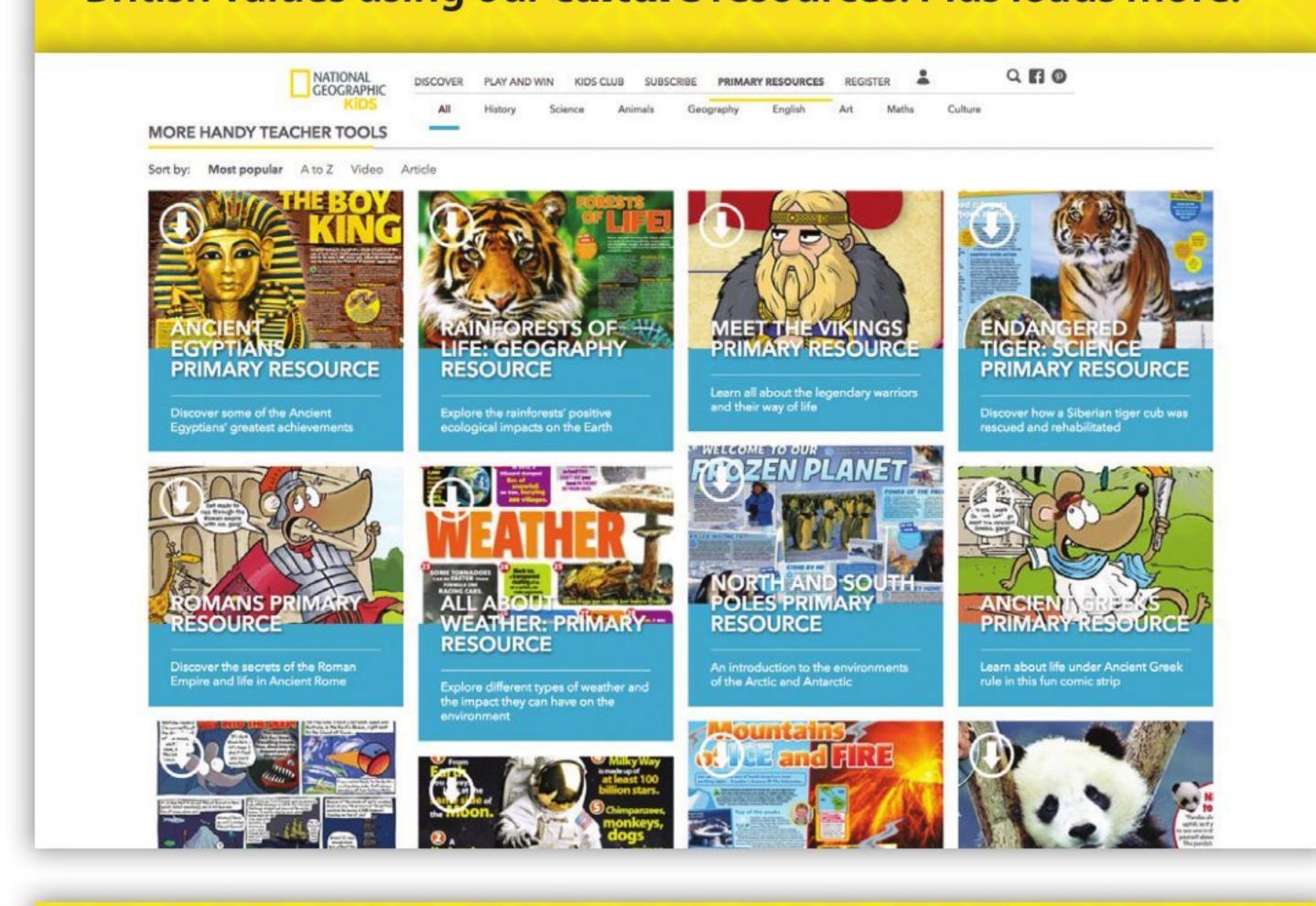
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Discover awesome homework help and classroom fun with our FREE primary resources! Just head to NATGEOKIDS.COM/UK/RESOURCES

Sign up now! More than 24,000 teachers have already registered!

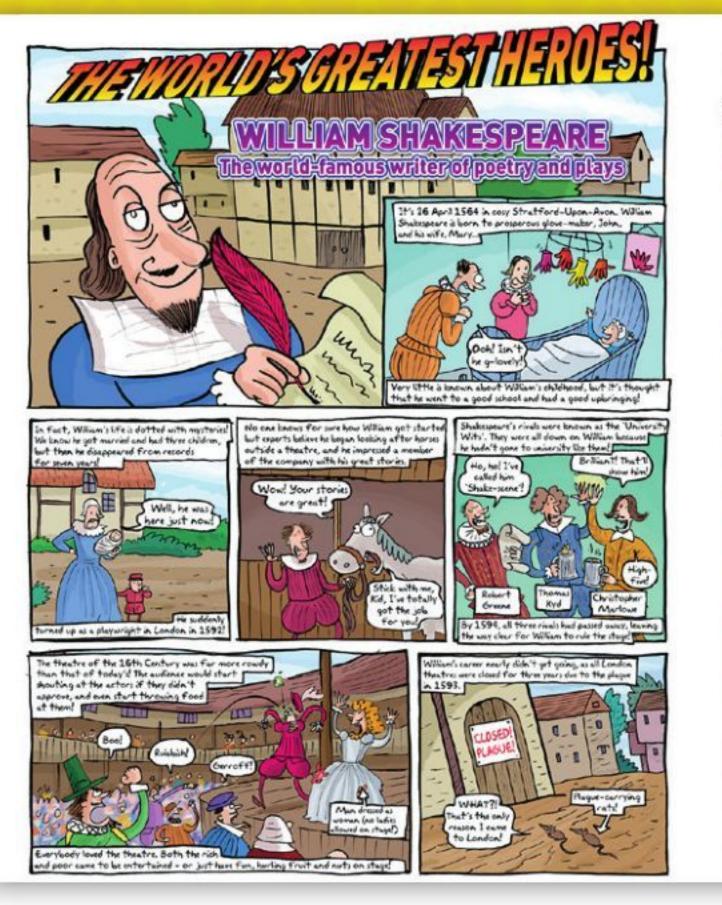
MAKE LEARNING FUN!

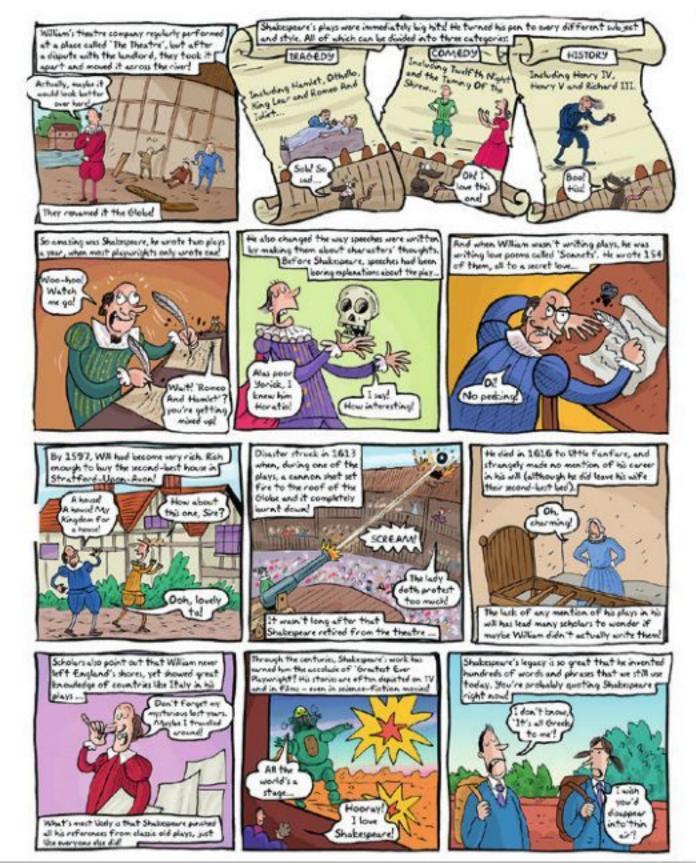
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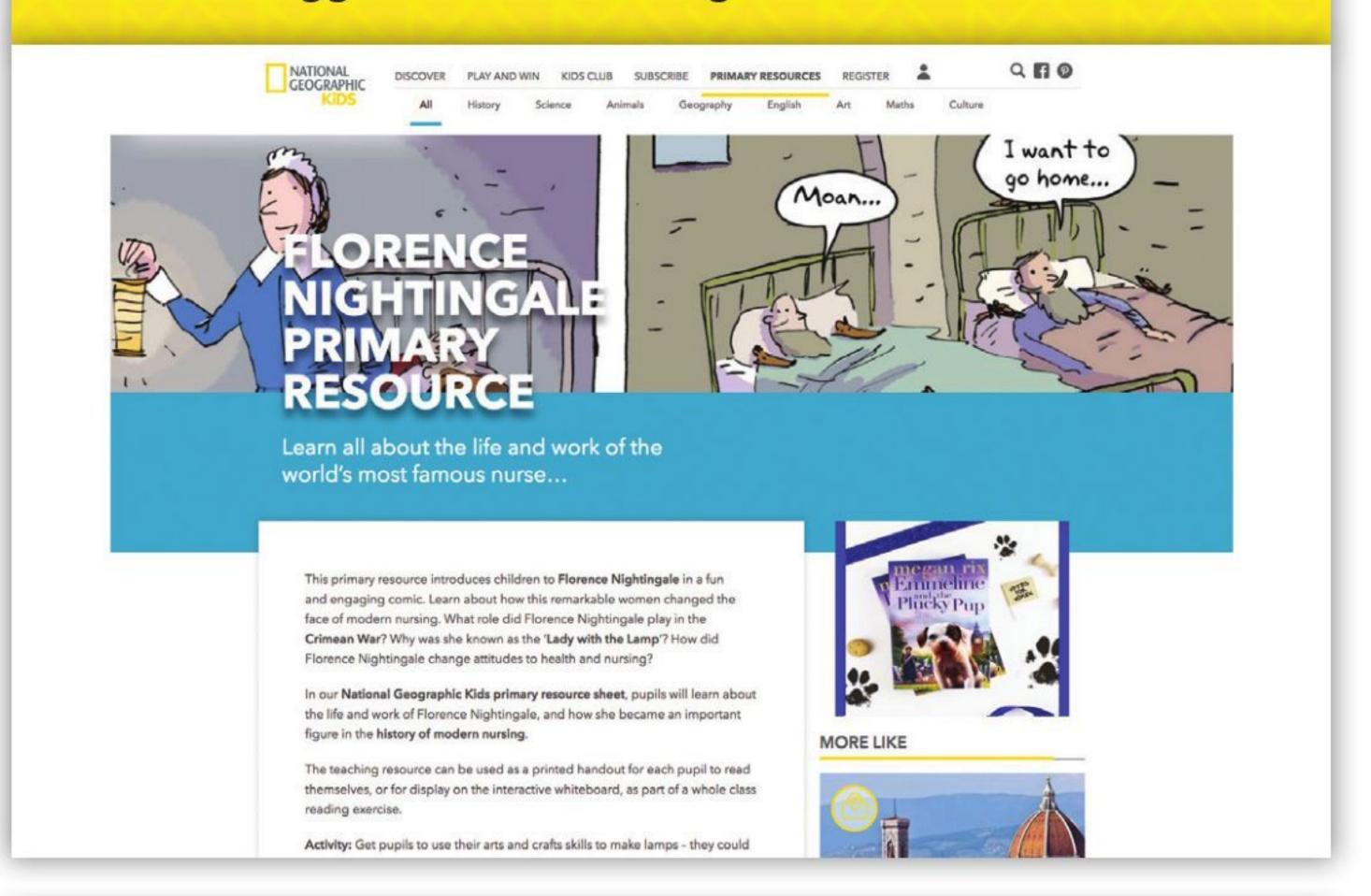
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Designed for your teachers, our curriculum-aligned content helps with lesson planning by providing curriculum links and suggestions for exciting classroom activities!



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