





Calling all young minds...

What problem in the world would you like to solve?

The Young Imagineers Challenge invites young people to think about the important issues they feel the world faces today and pick one thing they would like to see solved in the future. There are three categories; health, sustainability and technology.

The public can vote for the challenges they most want to see solved via our website and our top entrant in each category will see their challenge brought to life in a live-streamed, interactive lesson, presented by Dallas Campbell.

To enter, simply visit the site below, think of a challenge for one, or all of the categories and submit it using the entries portal. The closing date is Sunday 31st January 2021

Good luck!

WWW.YOUNGIMAGINEERS.EQUINOR.COM



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NATIONAL GEOGRAPHIC KiDS

Happy New Year, Kids!

Hope you've had a fun holiday and a great start to 2021!

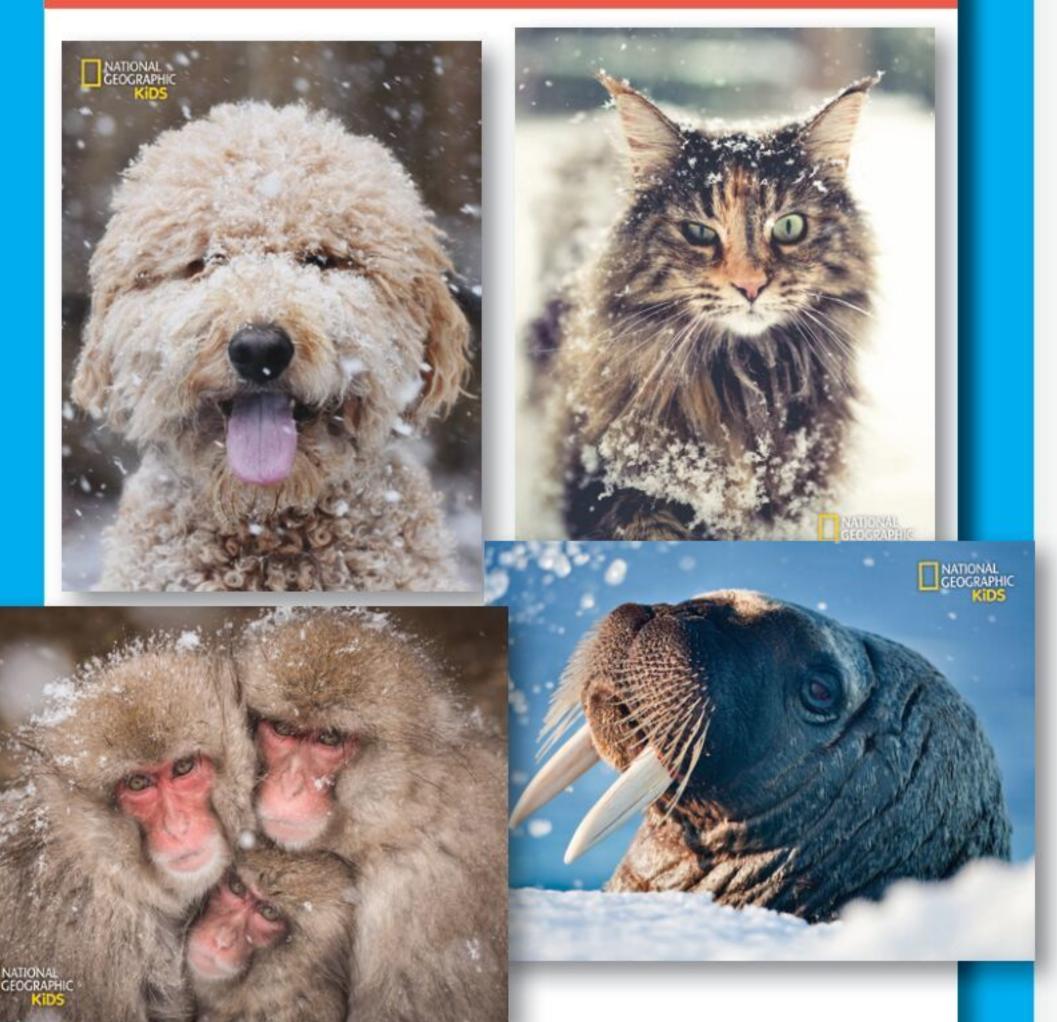


In this month's mag, we find out about one of the world's most elusive big cats – the snow leopard. Turn to page 12 to meet this fantastic feline. Also this issue, we learn 30 cool facts about icy things, and check out one of the new Wonders of the World, India's Taj Mahal! Discover how much fantastical beasts have in common with real-life animals on page 20, and then dive into the ocean to marvel at eight colourful sea slugs!

Don't miss this month's bumper Fun Stuff section-it's guaranteed to bamboozle your brain! Enjoy the issue!

The Nat Geo KiDS team

FREE this issue...



4 POSTERS!

Write to NG KiDS

Email kids@ngkids.co.uk **Post** National Geographic Kids, PO BOX 219

Unit 3, Queenborough, ME12 9BF

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National Geographic Kids is the world's biggest-selling monthly general-interest magazine for children, with a worldwide circulation of 1.7 million in more than 20 countries.







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- win this month. Woo hoo!

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The latest news from around the globe...

into the forest!

Elephant rescue!

When an elephant fell into a well in India, over **50 people** came together to help save its life! The elephant tumbled down the 15-m hole in November after wandering into Dharmapuri village near a forest in the southern Tamil Nadu state. The deep well was covered by branches and had no barrier.

To retrieve the animal, rescuers first tried to pump water out - until the elephant attacked the pipes. Then doctors calmed it down with tranquilisers before large belts were attached to its limbs. Local villagers threw banana leaves down for it to eat during the night. Eventually a crane arrived and winched the huge creature out, upside down!

Amazingly the elephant was unharmed by its ordeal and soon returned to the forest. All's well that ends well!





During September's Great British Beach Clean, over 70% of volunteers found discarded PPE (personal protective

equipment) among the litter they collected. Although single-use facemasks and gloves are incredibly important to help stop the spread of Covid-19, if they're not disposed of properly they can end up in the ocean. This poses a huge problem for marine animals, as they can get tangled in the items or mistake them for food.

"Please remember to properly dispose of your PPE or, if appropriate, buy reusable masks or make your own!" urges Catherine Gemmell, from the Marine Conservation Society.

FAST World Radio Day
Time to tune in and celebrate
the world's most widely consumed
form of media on 13 February

Radio waves are a type of safe electromagnetic radiation. They're transmitted by an antenna and picked up by a **receiver**, which converts the **electric** signals into sound! **Heinrich Hertz** proved their existence in **1887**.

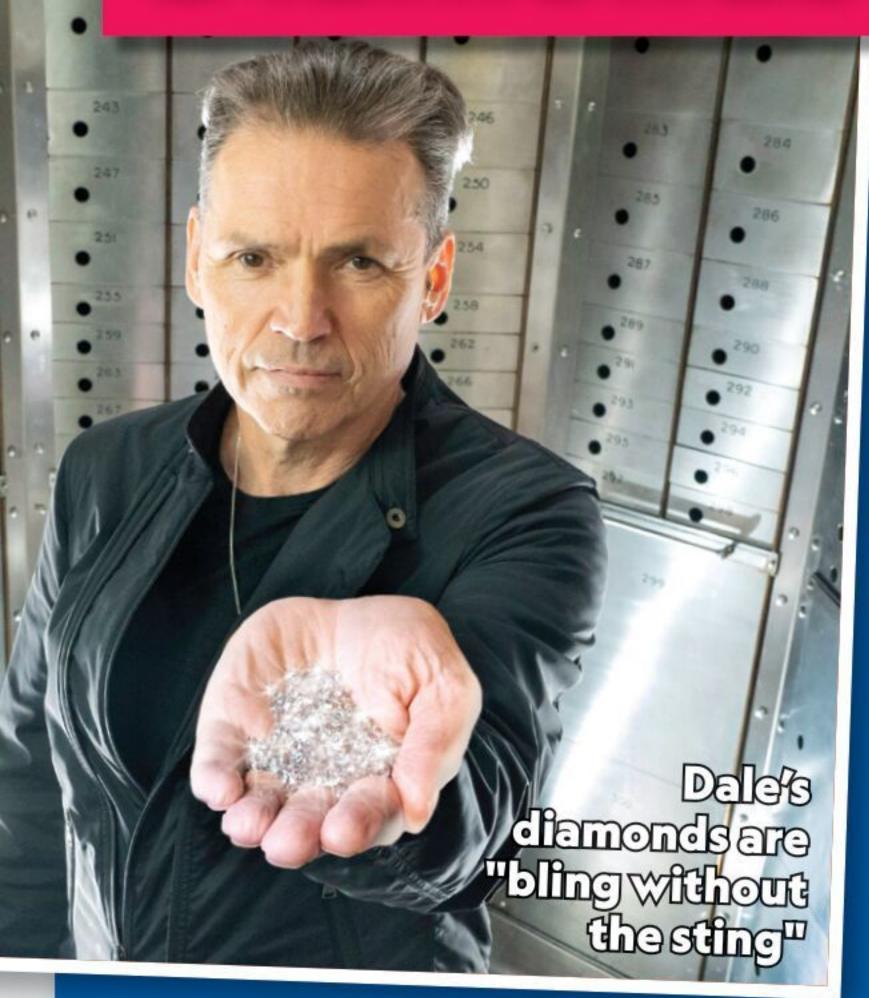
Guglielmo Marconi sent the first trans-Atlantic radio signal in 1901, and in 1906, Reginald Fessenden made the world's first **radio broadcast** – a special **Christmas** concert. Today, there are **44,000 radio** stations worldwide!

Radio is important because it can be run at a **low cost** and reaches remote **communities** and vulnerable people. This year's World Radio Day promotes diversity of **programmes** and **broadcasters**, to reflect the diversity of **society**.

You can listen to broadcasts from all around the world at radio.garden



Diamonds made from 'sky'!



Environmental entrepreneur Dale Vince has come up with a way of making eco-friendly diamonds - by sucking carbon out of the sky! Traditional diamond mining causes damage to the planet, and has also been linked to wars, child labour and slavery. But 'Skydiamonds', developed in a top-secret, five-year process, are completely 'green'. And, according to Dale's team, they're identical to Earth-mined diamonds and are certified by the International Gemological Institute. Cool!

Multi-millionaire Dale is best known as the founder of the world's first green energy company Ecotricity, as well as being the chairman of Forest Green Rovers - the world's first vegan football club! "Living a greener life is not about giving stuff up," he says. "It's about doing things differently." Right on!

MAKEITA

What's going on this month?



Big Garden Birdwatch

Count the birds! tinyurl.com/RSPBGardenBirdwatch

Chubby rodent gets stuck!

A cheeky little dormouse snuck inside a bird feeder to steal some winter snacks - but ate so much it got stuck! The little rodent (right) was discovered snoozing among the nuts by a homeowner on the Isle of Wight in November, who contacted the **Hampshire Dormouse Group** to find out how to remove it. Thankfully, the cute critter was safely returned to the wild, no harm done.

"It's safe to say, this fatty will survive hibernation just fine," explains the group's **Catherine Hadler.**

Seen any dormice lately? Register your sightings with the People's Trust for Endangered Species to help with conservation efforts. Find out more at tinyurl.com/DormouseDatabase





Children's Mental Health Week

Look after yourself and others childrensmentalhealthweek.org.uk



World Wetlands Day

Protect our planet's marshlands and swamps



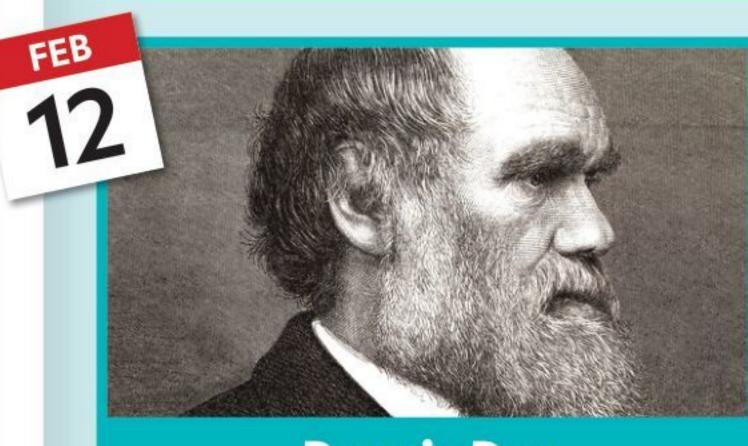
GROUNDHOG FEB

Want to get find out the weather forecast this February? In the USA, some folk consult Punxsutawney Phil the amazing weather-predicting groundhog! Every year, the people of Punxsutawney in Pennsylvania gather around the rodent's burrow and wait for him to poke his head out. Legend says that if Phil sees his shadow and returns to his burrow, there will be six more weeks of winter weather to come. But if no shadow is seen, spring will arrive early! The wacky tradition has been celebrated since 1886! We suspect it hasn't been the same Phil all that time, though!



International Day of Women and Girls in Science

Let's make science more equal!



Darwin Day

Celebrating the life and work of the famous naturalist

Check out the planet's strangest pictures...



When a cargo ship capsized in St. Simons Sound, Georgia, USA, in September 2019, the crew thankfully escaped unharmed. The ship is now being sliced up so it can be more easily removed – revealing the 4,200 brand-new cars that had been out for delivery!

Crazy cleaners!

These **brave climbers** were pictured **clearing ice** off **Russia**'s vast **Russky Bridge** in November. The crossing, which links the Russian city of **Vladivostok** to **Russky Island**, is **321m high** – that's the same height as a **97-storey building**! Would you dare do that job?



THEAT-AIR! Daredevil trapeze artists took part in an outdoor performance of The Shepherdess and the

Daredevil trapeze artists
took part in an outdoor
performance of The
Shepherdess and the
Chimney Sweep by Hans
Christian Andersen in
Prague, Czech Republic,
recently. The public
watched from afar!

COVID COP! This policeman in Chennai,

India, has made a few tweaks to his motorbike helmet for when he talks to the public about social distancing – he's turned it into a model of the Coronavirus!



Forget penalty spots and centre

use of football-pitch paint! Called

Sprayed by a group of artists called

playing. Clever!

6,000 Children, the biodegradable

portrait was painted on the side of a hill

mark World Children's Day in November.

in Hebden Bridge, West Yorkshire, to

Sand In Your Eye, the 11,000-m² image

is made up of **6,000 silhouettes** of **kids**

circles – here's a much more creative

UNICORN FOR SALE!

Well, sort of. This 'life-sized' model of a unicorn went up for sale at an art auction in London, last month. Magic!

Antarctic facts that will give you chills

Some Denguins can dive more than 300m deep that's about 150 times deeper than an Olympic swimming pool.

Nodogs are allowed in Antarctica.

400 lakes are hidden under Antarctic ice.

There's an ozone hole over Antarctica that's larger than Australia.

KING PENGUIN

Antarctica was located near the Equator hundreds of millions of years ago.

Wind gusts in Antarctica can blow more than 320kmph almost as fast as a racing car's top speed.

WHATS

Check out the latest TV, movies, websites and books! What will YOU get up to this month?

PHONE

BILL & TED FACE THE MUSIC



However, cut to the present day and their band The Wyld Stallyns is stuck playing to tiny crowds, their masterpiece still unwritten. Bogus! With time running out before all of reality collapses, the best buds (with a little help from their musicmad daughters Thea and Billie) head off on a hilarious time-travelling adventure to save the day. Party on, dudes!

Own it on digital from 9 January and out on 4K, Blu-ray, DVD & VOD from 25 January

We're giving away three

WATERBEAR NETWORK

Do you love nature? Well, now you can watch tons of top documentaries, engaging short films and inspirational media about our wonderful world completely free!

WaterBear Network is the world's first interactive streaming platform dedicated entirely to the future of our planet. **Amazing! What makes** WaterBear Network really unique is that it allows subscribers to take instant action while they're watching – by getting involved with volunteering projects, events, campaigns, or donating.

Visit waterbear.com to sign up for free and start watching!

Can the dad dudes and their daughters save the day?!

copies of this totally bodacious movie on **DVD**. For your chance to win, just answer this question:

Which of these is a real genre of music? a) Flip-flop b) Tip-top c) Hip-hop

MONSTER COURT

Bill and Ted are

back in their

third fab film!



Urggh! There are so many things in this world that are completely out of order - embarrassing parents, boring teachers and early bedtimes...

But don't worry, Judge Martin Smudge is here to help kids sort out their problems in his Monster Court. The furry orange puppet will be dealing out monstrous punishments to the people giving grief, so long as the kids swear to tell the truth, the whole truth, and nothing but the truth!

Catch it on BBC iPlayer and the CBBC Channel in January

ALIEN WORLDS

Astronomers estimate there are a whopping 100,000 million stars in our galaxy alone. That means there are likely to be planets out there bursting with alien life!

By applying the same laws that govern life on Earth to other worlds, this thought-provoking series imagines what these alien planets and the creatures that live on them might look like, bringing them to life with stunning CGI. Watch the airborne lifeforms that make their home in the thick atmosphere of fictional planet Atlas, and meet a mega-advanced species that lives on a planet called 'Terra', orbiting an ageing star.

Watch it on Netflix now











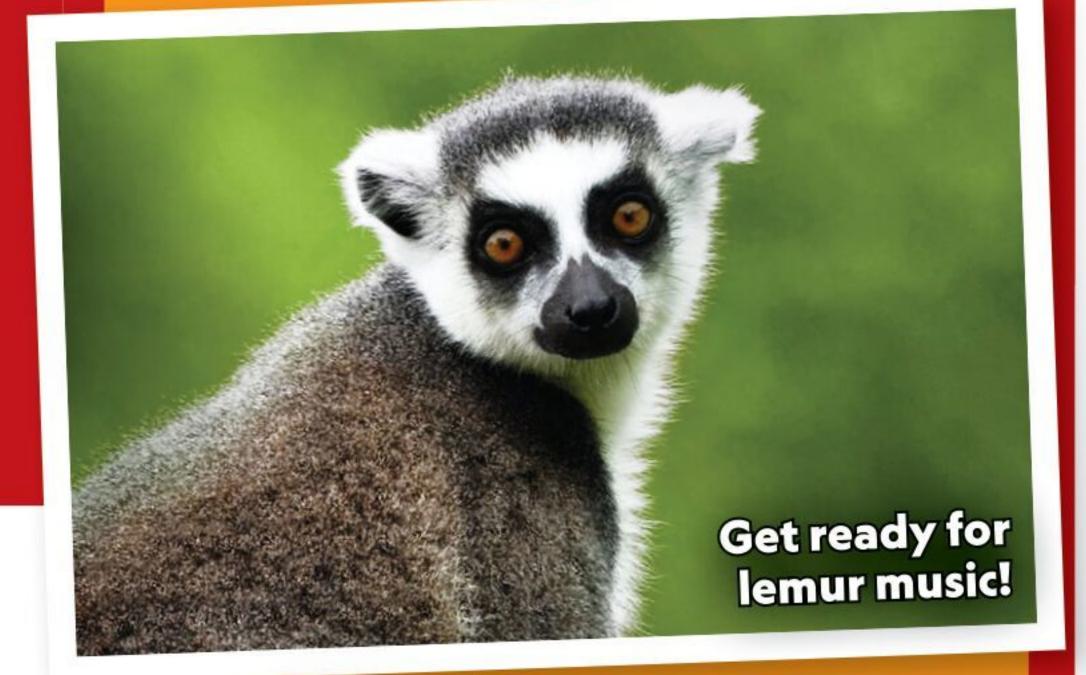


TOP THREE FILAS ON WATERBEAR!



AFRICA'S HIDDEN SEAFOREST

Deep beneath the waves in the Atlantic Ocean lies the Great African Seaforest! This magical movie explores the creatures among the kelp!



2 REMIXING MADAGASCAR

Journey across the island of Madagascar with sound artist Ben Mirin as he records the voices of nature and local people, transforming them into incredible music.

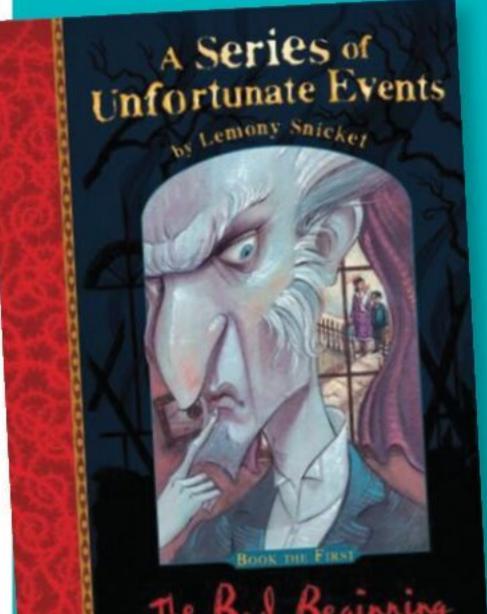


The Land of Roar Jenny McLachlan

Eleven-year-old Arthur finds a map of an imaginary land called Roar that he and his twin, Rose, drew when when they were little – a place they discovered by climbing through the fold-up bed in their grandad's attic. But when Grandad goes missing, they realise Roar may actually be real, and they set out with Win, a wizard-ninja, to rescue him.

I think anyone who likes fantasy and adventure will adore this book!





A Series of Unfortunate Events -The Bad Beginning Lemony Snicket

As you can probably guess from the title, this book is very depressing... but it has a creative, interesting and complex plot. It's about three orphans trying to escape from evil Count Olaf as he attempts to get his hands on their enormous fortune. He goes to gruesome measures to get what he wants.

What I love about this series of books is the unbreakable friendship of the children. This story makes me feel so grateful for my family!

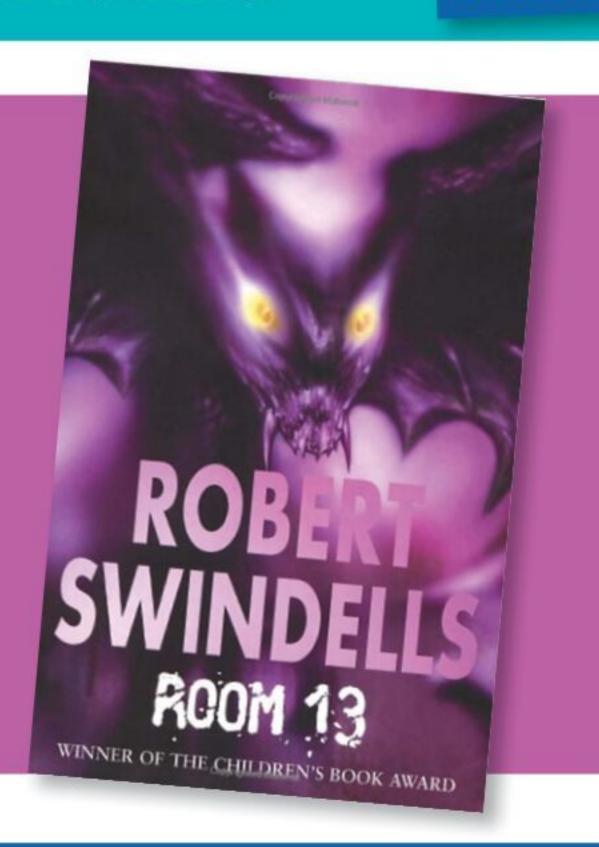


Joie, 12

Room 13 Robert Swindells

There is no room 13 in the Crows Nest Hotel. Or is there? When the clock strikes midnight, Fliss and her school friends find something peculiar – the room appears and they go on a wild adventure trying to save their friend Ellie-May Sunderland, with the help of a scary old lady. Khadija, 11

I enjoyed this spooky tale!







3 ESME AND MILLIE

When baby rhino Esme first arrives at the **Hoedspruit Endangered Species Trust in** South Africa, she's weak and skinny. But caring staff and an unlikely friendship with a sheep called Millie bring her back to health!



The Questioneers series

Meet the creative, curious and inventive kids of Miss Greer's second-grade class as they use their passion for all things **STEM** to solve a series of fun-filled problems in school and out. How can science-mad Ada recover Rosie's uncle Ned when his helium-filled pantaloons send him into the sky? And how will future president Sofia make the class election fair?

Five winners will scoop these four books in The Questioneers series! For your chance to win, go to natgeokids.com and answer this question... Pantaloons are a type of what clothing? a) Shirt b) Socks c) Trousers

NAT GEO KiDS' image of the month











An old **snow leopard** sweeps his **thick**, **spotted tail** and looks over his **frozen home** high in the **mountains of India**. He lies on an **icy ledge** overlooking a deep canyon as we watch him through **binoculars**. Three wild **mountain goats**, called **ibex**, appear on the rim of the canyon about **90m** away from the cat.

The snow leopard lifts his head, **catches their scent** in the air, and slowly begins to slink up the cliff. It's hard to follow him, even with the binoculars. The cat's **white-and-grey fur** with **black spots** blends in among the **canyon's rocks**, **shadows** and **patches of snow**. He seems to **vanish** and reappear like a **ghost**. "He wants to **get above** the ibexes to **chase them** to the **edge of the cliff**," whispers **Prasenjeet Yadav**, a **National Geographic Photographer and Explorer** who's been tracking and studying the beautiful cats for the last two years.

After about 20 minutes, the cat has crept close to the ibex and is just about to leap. But then a sharp whistle breaks the silence and the ibex suddenly sprint away. "That's their warning call," Prasenjeet says. "One of them must've smelled the leopard."

The big cat doesn't bother chasing them. Instead, he descends the mountain and disappears. "You are very lucky," Prasenjeet says. "You saw a snow leopard on your very first day. Some people never see them."

HIDING IN PLAIN SIGHT

It's February 2020, and we've travelled to the ancient Himalayan village of Kibber, in India's **Spiti Valley**, in search of these mysterious animals – nicknamed 'ghost cats' because they're so difficult to find. The long journey we've made is definitely not suitable for people who are afraid of heights. The village is only accessible by a zigzagging, narrow road carved into steep mountains. And because we're here in winter, when the snow leopards follow their prey into lower parts of the mountains, much of the road is covered in snow and ice. Over the next few weeks, we trek more than 50km, descending into canyons, trudging up snowy passes, and climbing onto icy cliffs as we try to photograph the cats and learn more about how they live.

The exact number of snow leopards in the Spiti Valley is a mystery. In fact, counting them is practically impossible. Their range extends across 12 Central Asian nations in some of the harshest environments for humans. Freezing temperatures and the mountainous terrain prevent most scientists from studying these endangered cats up close.



DIGITAL FOOTPRINTS

"Scientists have only been able to study a **tiny amount** of snow leopard habitat," says **Charu Mishra**, head of the **Snow Leopard Trust**. "So we can't say for sure how many of these cats there are in the wild." He estimates that there are between **3,500** and **7,000** snow leopards on the planet.

Researchers *have* been able to study some populations of the cats by **tracking** them with **GPS collars**. Over recent years, experts in **Mongolia**, a country in Asia, put satellite collars on **32 snow leopards** and learned a lot about the cats' movements in the **Tost Mountains** of the **Gobi Desert**. They discovered that an **adult male** there needs roughly **207km²** of **hunting territory** – that's an area almost **twice the size of Bristol**!

But snow leopards live in different types of terrain, and the amount of territory they need depends on many factors, including the kind of prey available for them to hunt and the impact humans might have on their lives.

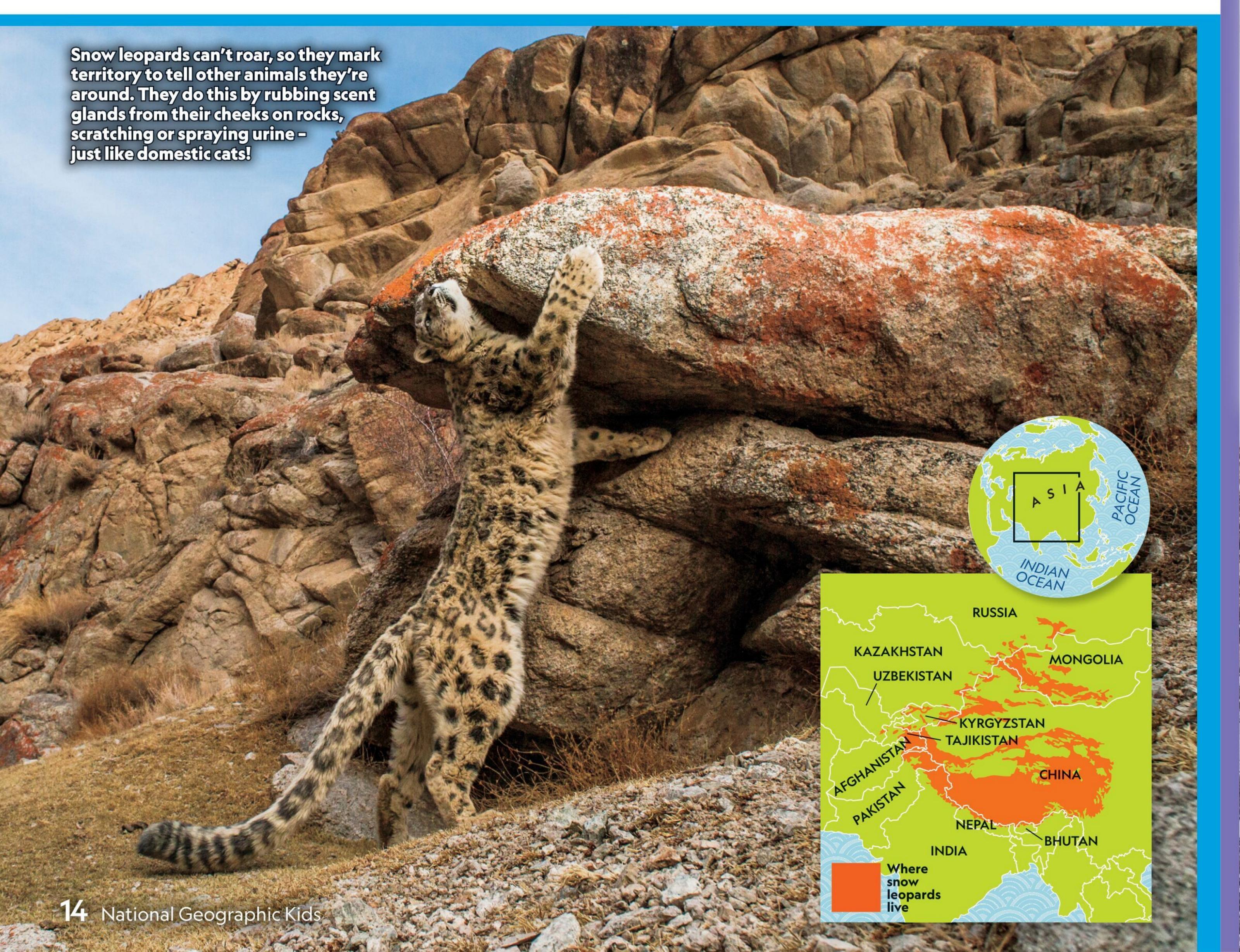
These big cats face lots of threats. In



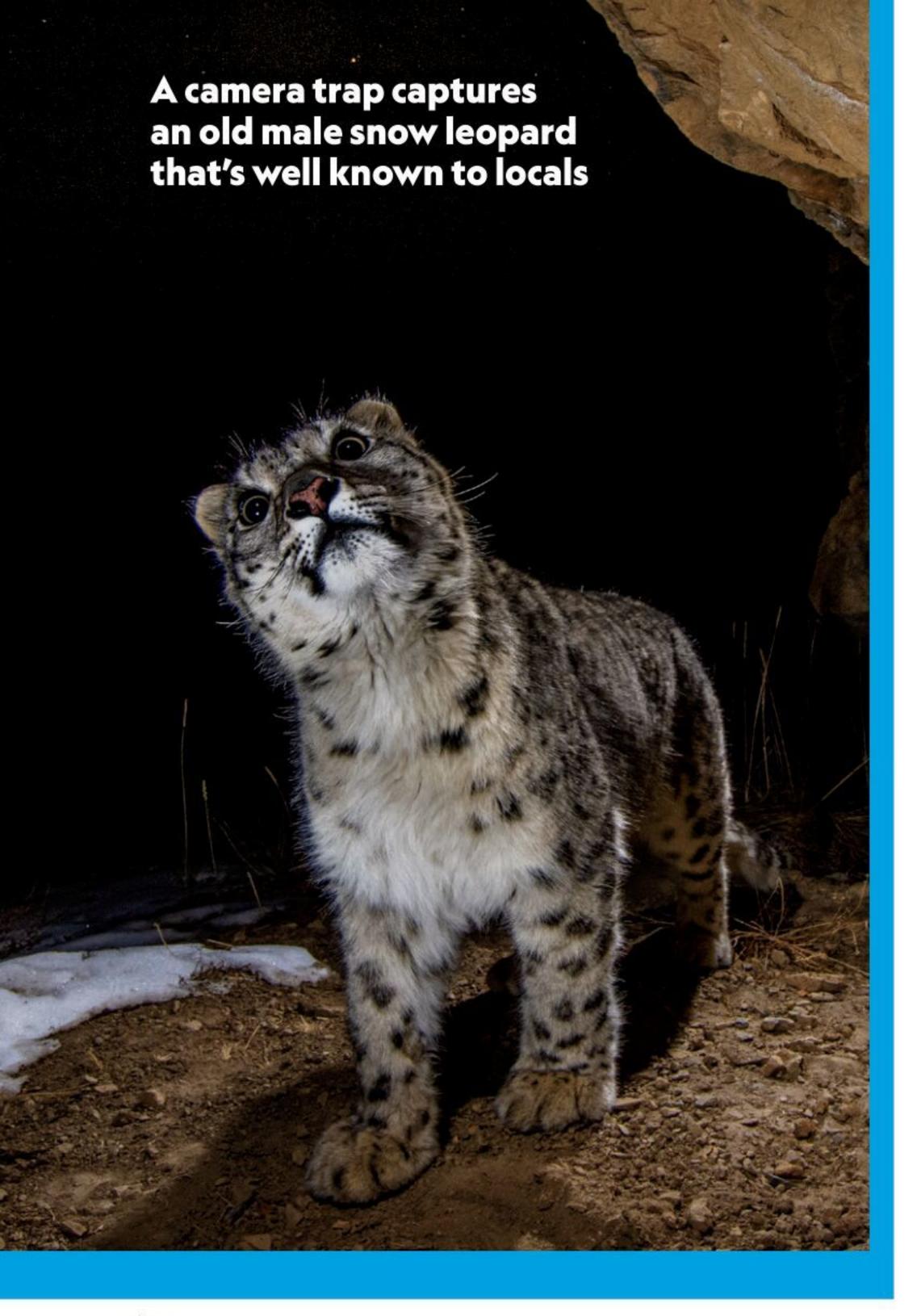
some places, poachers hunt them to sell their fur. In others, companies digging for minerals are destroying the land where they live. And many of the snow leopards' favourite prey animals are disappearing.

Here in Kibber, the local people used to hate snow leopards because they would

kill their goats, sheep and donkeys.
But the Snow Leopard Trust and other conservation groups have helped the locals develop new ways to protect their livestock. Now tourists pay money to visit Kibber and see snow leopards, and the locals help protect the cats. "We need more of these success stories," Charu says.







CAUGHT ON CAMERA

In order to **protect** snow leopards, conservationists need to **learn more about them**. Which is why Prasenjeet has been in Kibber for two years, helping scientists track the big cats using **camera traps**.

On our last day we set off on a hike to check **three** of these camera traps. The **waterproof cameras** have been **hidden**

in piles of rocks near where the cats like to hunt, and they go off with a flash when their motion sensors are triggered. Prasenjeet is hoping to have captured a picture of a female and her three cubs. "Getting four snow leopards in one picture would make me very happy," he says.

After a long trek we finally reach the rocky ledge were the cameras are hidden. "This is like a snow leopard highway," Prasenjeet says, explaining how the cats use the ledges to travel between the high pastures where their prey come to graze.

Soon our guide **Namgyal** finds **recent tracks**, including a small one that might have been made by a **cub**. Prasenjeet spots a **fresh urine stain**, where a cat has marked its territory. Snow leopards have *definitely* wandered past the cameras recently.

But when Prasenjeet begins to check the cameras, our hopes are dashed. One of the traps' **batteries has died** – a common problem in the extreme cold. Another's **flash has stopped working**. The last camera has taken images, but only of a curious **fox** and a flock of **birds**.

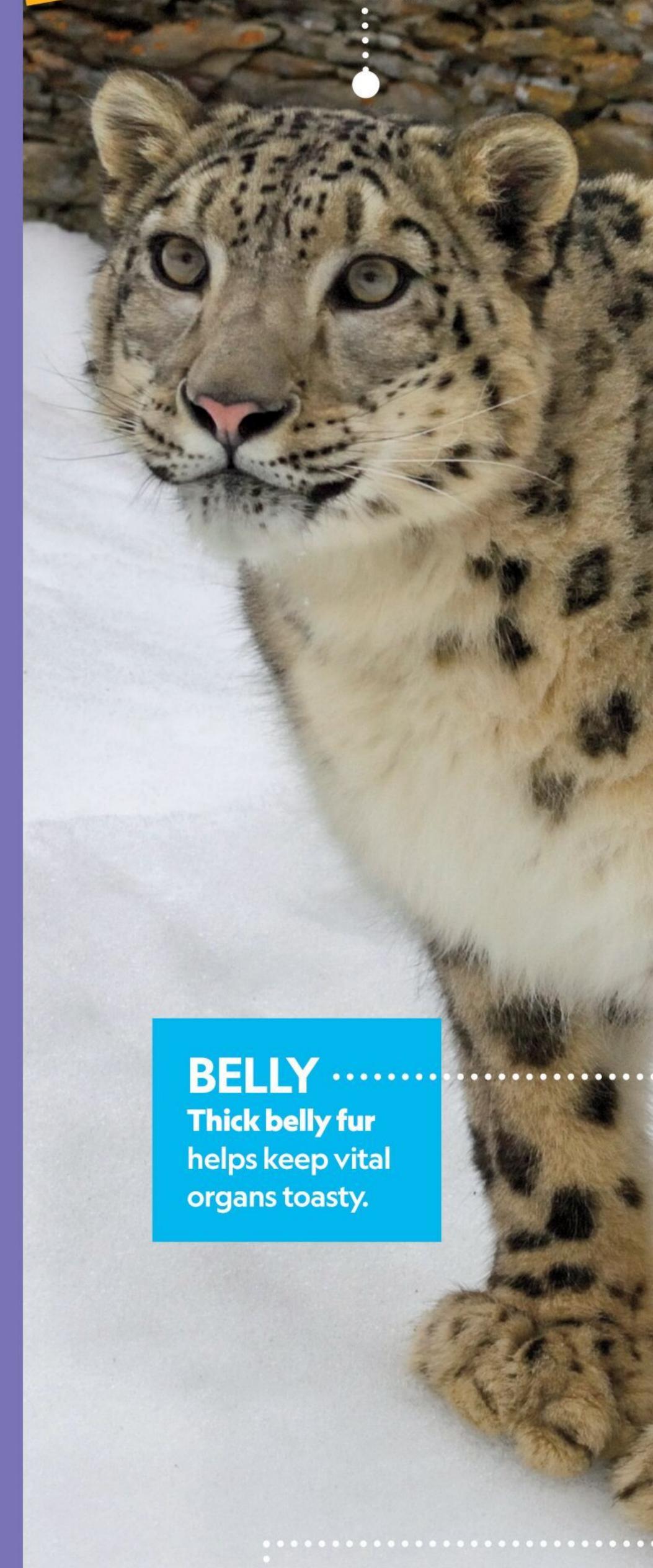
We're bitterly disappointed. "The snow leopards love to torment me," Prasenjeet jokes wryly, adding that a cub had once **peed on his camera!** "But the **good news** is we know the **snow leopards are here**."

And sure enough, after we return home, Prasenjeet sends us a message. Namgyal had gone back to check the camera traps and one of the memory cards contained **video** of the **mother and her three cubs**. It's brilliant news – a **new generation** of snow leopards will soon be stalking ibex in the Himalayas...



Built for extremes

Check out how a snow leopard's body is perfectly adapted for its snowy, sub-zero mountain habitat...



PAWS

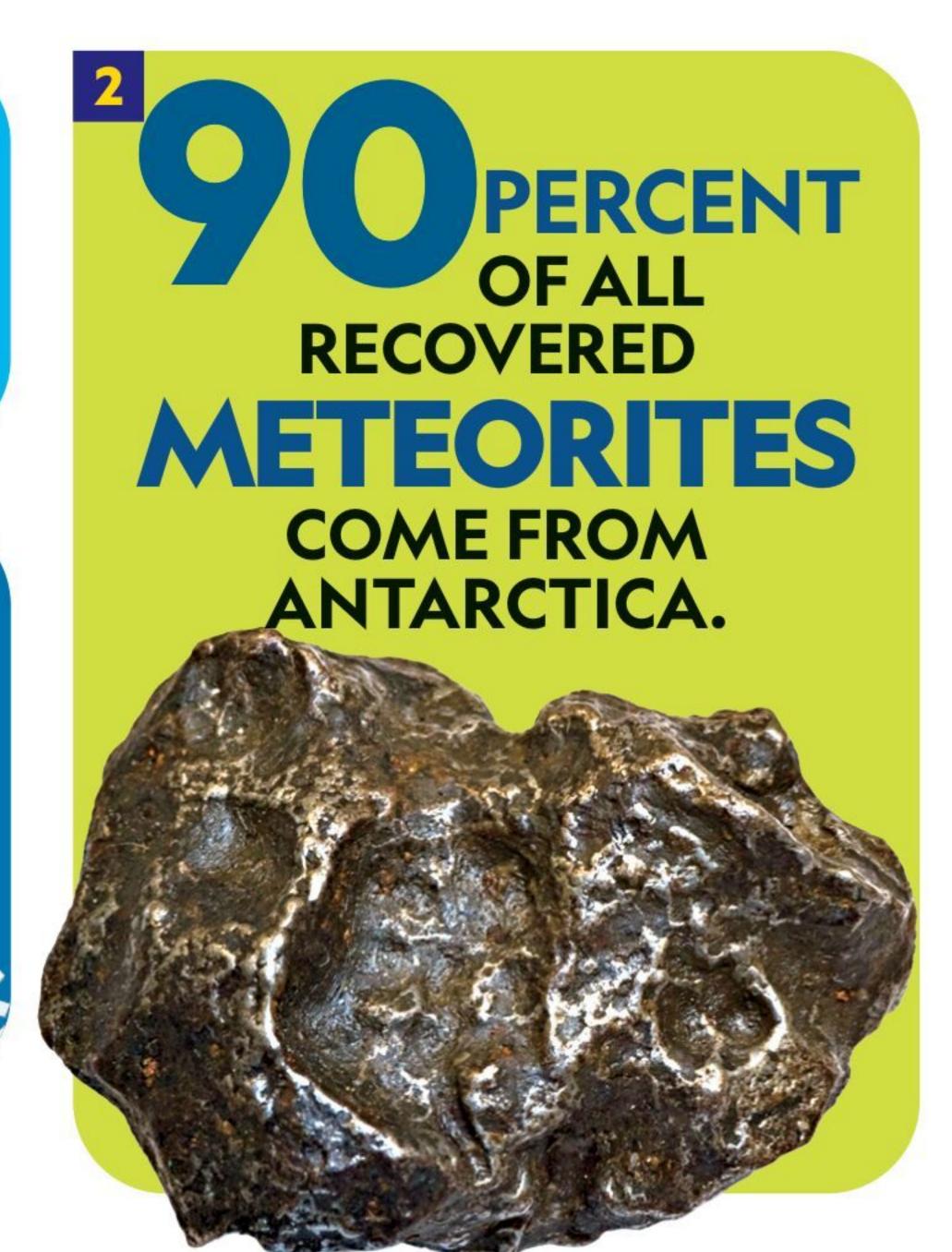
Large paws act like snowshoes and help keep the cats from sinking into the white stuff.



DURING THE LAST ICE AGE 11,500 YEARS AGO,

one-third of Earth's surface was covered in ice. Today, ice covers only a 10th.

Snowflakes GET SMALLER AS THE TEMPERATURE DROPS.



Icebergs are formed when huge chunks of ice break off glaciers and drift out to sea. THEY ARE MOSTLY MADE OF FRESHWATER.



BTOMAKE

An ICE PALACE built in St. Petersburg, Russia, was an exact replica of one built by Empress Anna Ivanovna some 200 years ago.



(ice with flavouring) sold during the US Great Depression in the 1930s were called 'hard times sundaes' because they were cheap to make.



BON'T TRY THIS AT HOME:

If someone was silly enough to touch their tongue to a metal pole on a below-freezing day,



THE ARCTIC-**DWELLING** WOLVERINE HAS PAWS LIKE **SNOWSHOES** SOITCAN WALK ON TOP OF DEEP SNOW.



REINDEER can travel more than during their annual migration in

the Arctic.



have antifreeze-like chemicals in their bodies that allow them to almost

FREEZE COMPLETELY IN THE WINTER



THE SENSATION OF **BRAIN FREZE** HAS NOTHING TO DO WITH YOUR BRAIN. IT OCCURS WHEN THE **BLOOD VESSELS IN** YOUR HEAD SWELL.



POLAR BEARS CLEAN THEMSELVES by RUBBING THEIR BODIES on the ARCTIC SNOW.

GETS SO COLD THAT YOUR BREATH CAN TURN TO EIN MIDAIR.

19 A MAN SET A RECORD BY BALANCING 120 FROZEN WAFFLES **IN HIS** HANDS.

On average, of SNOW equals 2.5CM of WATER.

ICE POPS were invented accidentally in 1905 when an 11-year-old left a cup of fizzy drink with a stick in it outside on a cold night.



years ago, Britain was covered in ice, which stretched as far south as LONDON.

IN THE

ANTARCTIC, THERE'S A

30-30-30 RULE:

When the temperature is

minus 30°F and the wind is

30mph, human skin freezes

in 30 seconds.

(minus 34°C, 48kmph, 30 seconds isn't so catchy!)

A BERGY BIT is a small ICEBERG that's about the size of a house. A GROWLER is a chunk of ice less than 5m across.

WHEN

LIGHTNING

OCCURS WITH A

SNOWSTORM, IT'S CALLED

THUNDERSNOW

IN SOME PARTS OF ANTARCTICA, THE ICE IS THICK.

EMPEROR PENGUINS can stay **UNDERWATER** for up to MINUTES.

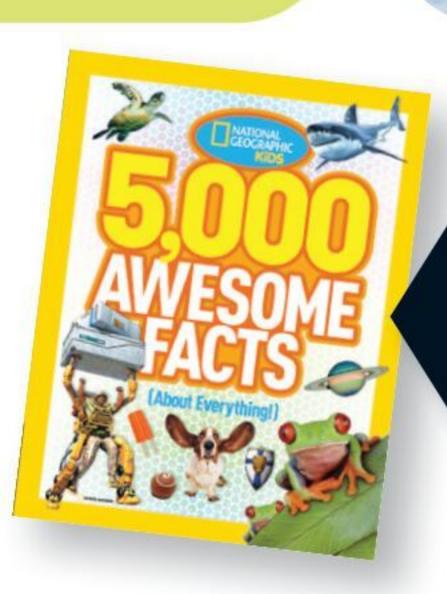
SEBERGLETTUCE GETS ITS NAME **BECAUSE IT** USED TO BE SHIPPED COVERED IN ICE.

The lowest temperature ever recorded on Earth was

minus 98°C IN ANTARCTICA.

Earth's two ice sheets cover most of GREENLANDand ANTARCTICA, and make up about 99 percent of the world's glacial ice.

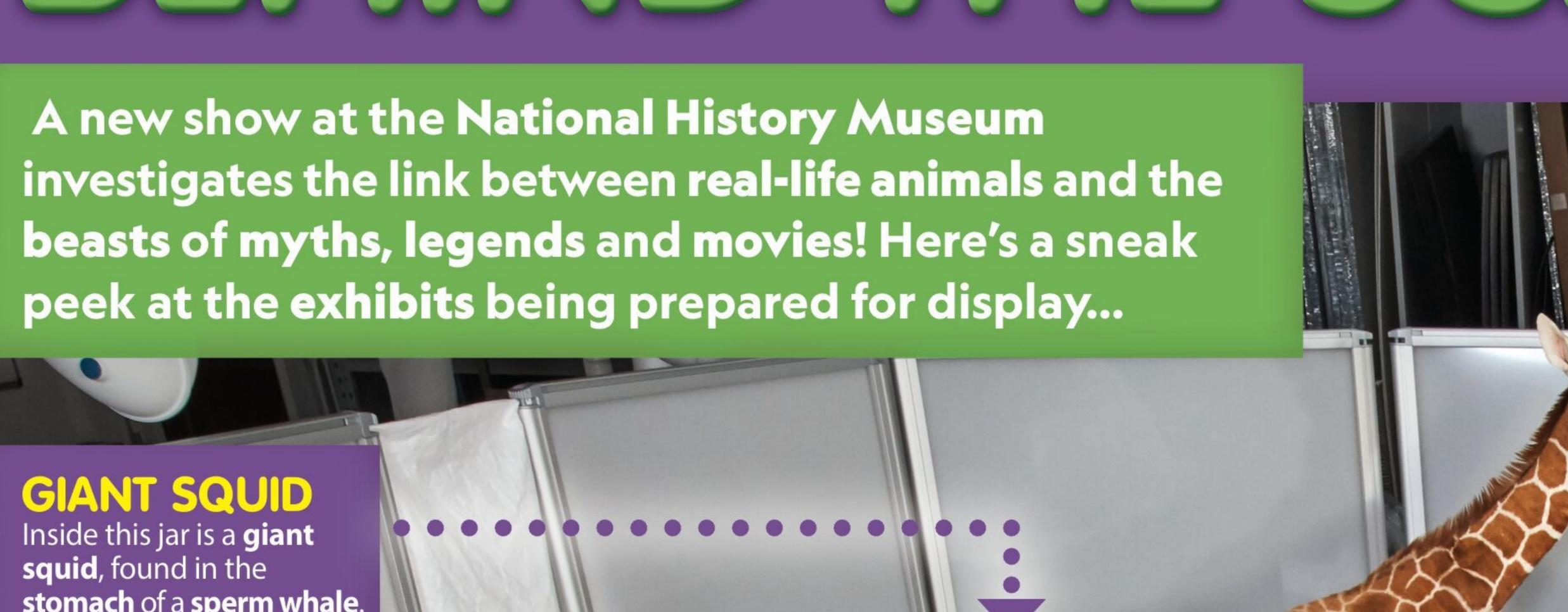
Early hockey pucks were made of FROZEN COW POO.



CHECK OUT THE BOOK!

KYNOC

RPLODE IN BULK



stomach of a sperm whale. The deep-sea molluscs are rarely seen alive, so most of what we know about them comes from studying remains such as these. Encounters with giant squids, which can grow to at least 13m in length, are thought to be the **most** likely explanation for tales of **sea monsters** such as the kraken!

NARWHAL

The 'unicorn horns' that were once **traded** across Europe were actually the tusks of small Arctic whales called narwhals! Though called tusks, they're actually large teeth which emerge from the front

of narwhals' heads, growing up to 3m long.

INSECT-COLLECTING EQUIPMENT (1800s-1900s)

Tools like these were once used to collect and study insects. As well as the net and box for **breeding** and **observing** live creatures, there's a tin of **black treacle** for luring **moths**!

S AT THE MUSEUM!



Meet some of the magical creatures from *Harry Potter* and *Fantastic Beasts* – and see how the brilliant animals on *our* planet are more than a match for them!

ERUMPENT

might **eat**

him. Yikes!

The Wizarding World's Erumpents (below) do a special mating dance. Lots of real world animals do mating dances, too – such as the finger-nail-sized male peacock spider (right), which raises its bright bum in the air and waves its legs. This delicate dance is a matter of life and death – if the female isn't impressed, she



The Erumpent's
horn is used in
Wizarding World
potions. Many real
animals are hunted for their body
parts, too, which are used in
traditional Asian 'medicines'.

Millions of pancelins (loft)

Millions of pangolins (left)
are killed for their hard
protective scales and meat – despite
no scientific evidence of their healing properties.

OCCAMY

Occamies can change size dramatically to fit any available space. And like the imaginary Occamy,

marine iguanas (right) can also expand and shrink! When their food (algae and seaweed) is scarce, these lizards shrink their bodies by up to 7cm – around 20% of their regular length. This reduces the amount of food they need to survive.



NIFFLER Magical Nifflers love collecting shiny objects.

Magical **Nifflers** love **collecting shiny objects**. Here on Earth, **Adélie penguins** (below)

prefer **pebbles**!
They hoard as many stones as possible, **piling them up to build their nests**.
Some even **steal** stones from neighbours – but they run the risk of a sharp peck or a flipper-bash!



MOONCALF

Like the fantastical **Mooncalf**, which can only be seen during the **full moon**, the **okapi** from **Central Africa** is well adapted

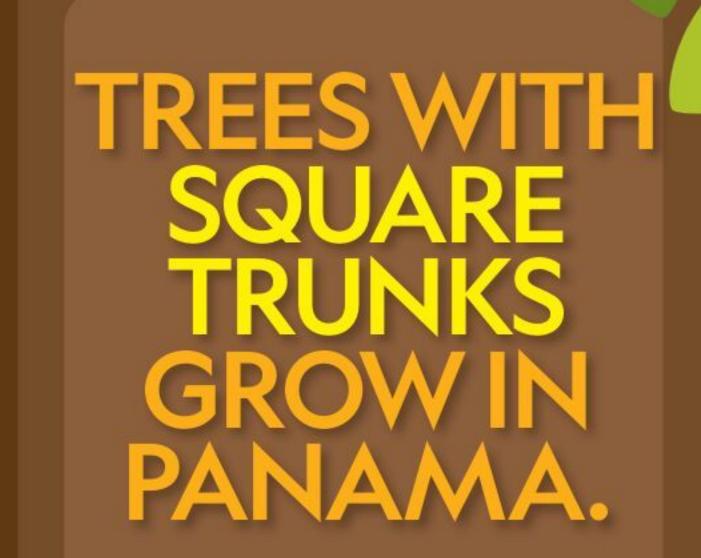
detection.
A relative of the giraffe, the okapi's stripy markings (right) camouflage it in its dense, shadowy forest home. Only discovered by Western scientists in the 1900s, it's still difficult to study today, despite its large size.



Fantastic Beasts: The Wonder of Nature is on at London's Natural History Museum until August 2021, featuring all these objects and many interactive exhibits. For prices, booking and further info, head to nhm.ac.uk

Check out these outrageous facts...

Dont miss the Weird But **True TV show** on Disney+ now!





Some lobsters are BRIGHT BLUE.

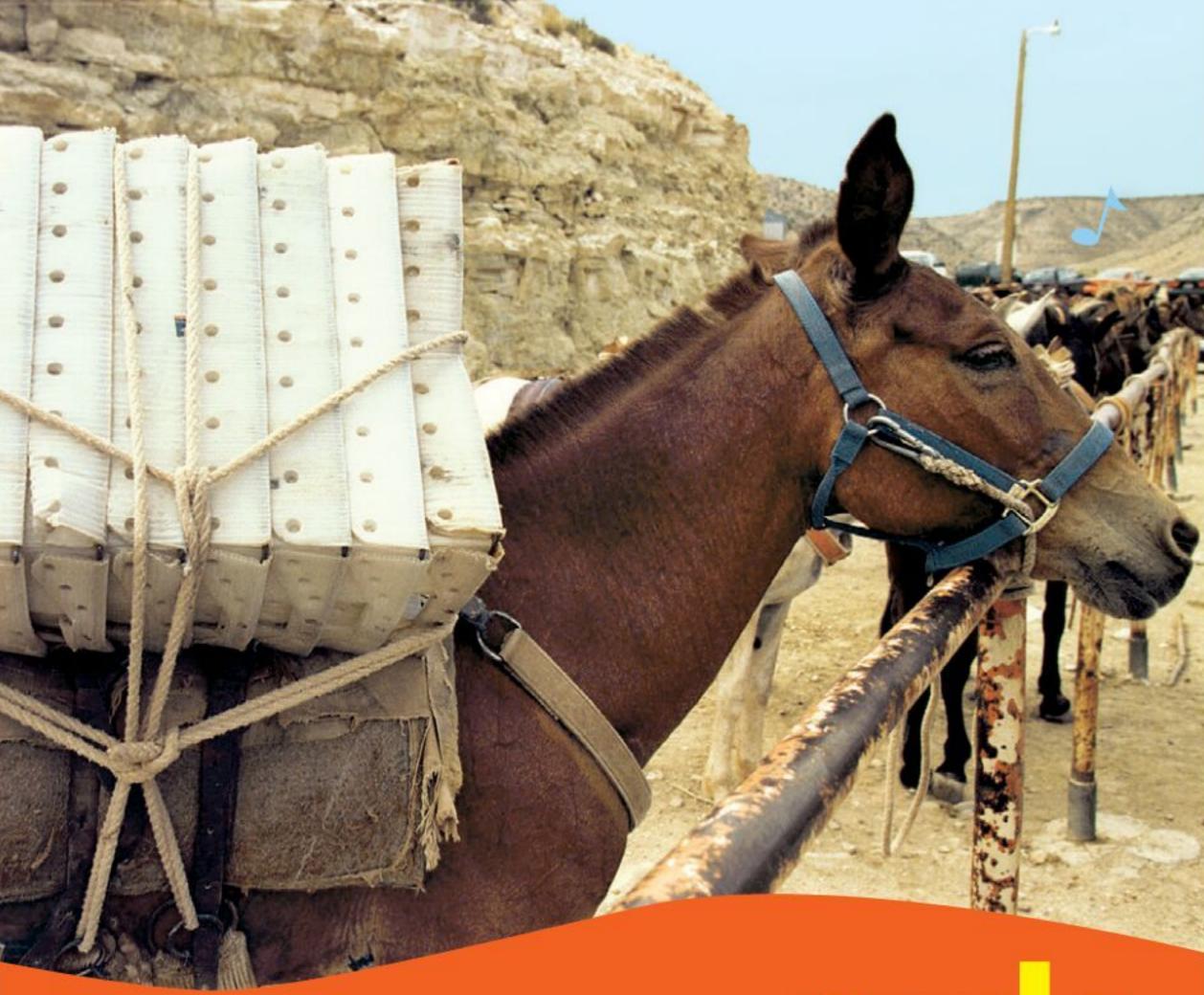


in southern Australia tend to have

thickerfur

than koalas in the north.

was originally named the Pluto Platter.



Post is delivered by MUE to a village in Arizona, USA.

A MATCHBOX-SIZED **LUMP OF** CAN BE FLATTENED INTO A SHEET ASBIGASA

Watermelons are 92 percent water.

Tokyo, a city in Japan, has roughly the same population as all of Canada.

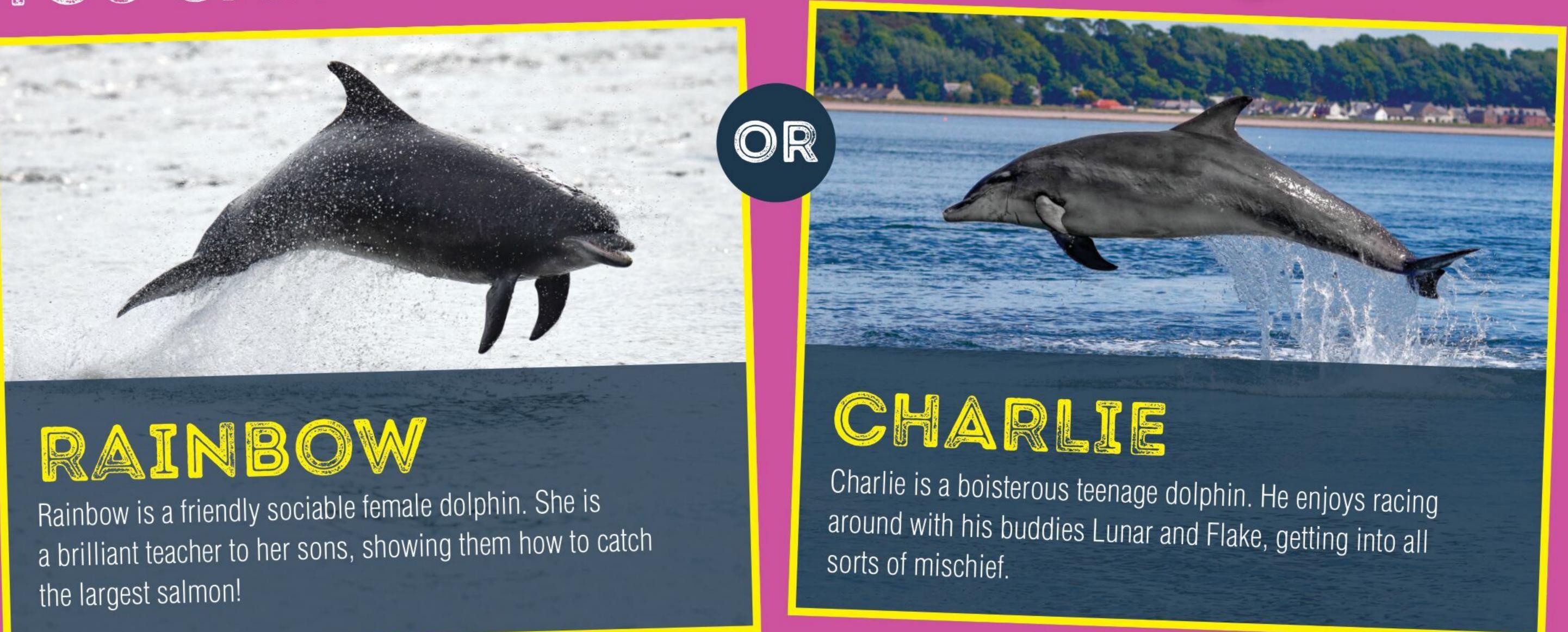


Adopt a dolphin today and you'll be helping to give the amazing dolphins of Scotland's Moray Firth a future

The survival of these intelligent and charismatic dolphins is threatened. This population is just under 200 individuals. Your support will help protect these individuals from threats including oil and gas exploration and production, chemical pollution and fishing. You will receive lots of stuff

including a personalised certificate with a picture of your adoption dolphin, 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 SPLASH!, a monthly e-newsletter and you'll receive an email birthday and Christmas card.

YOU CAN ADOPT:





TO FIND OUT MORE VISIT ADOPTADOLPHIN.COM







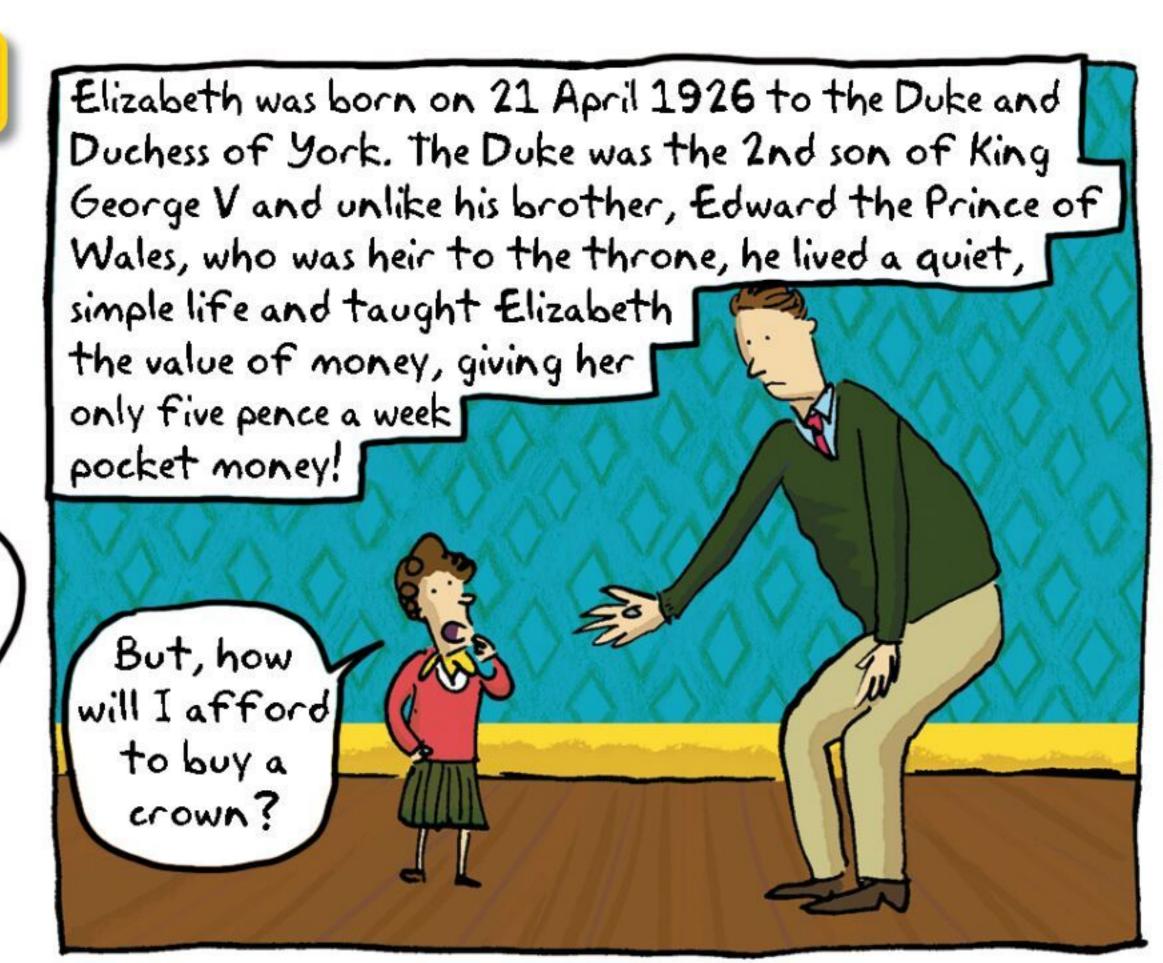






This month, NG KiDS' time-travelling mouse, Max, takes a trip to London to meet Queen Elizabeth II...

> Welcome, dear readers, to a speedy history of our very own Queen, Elizabeth II!



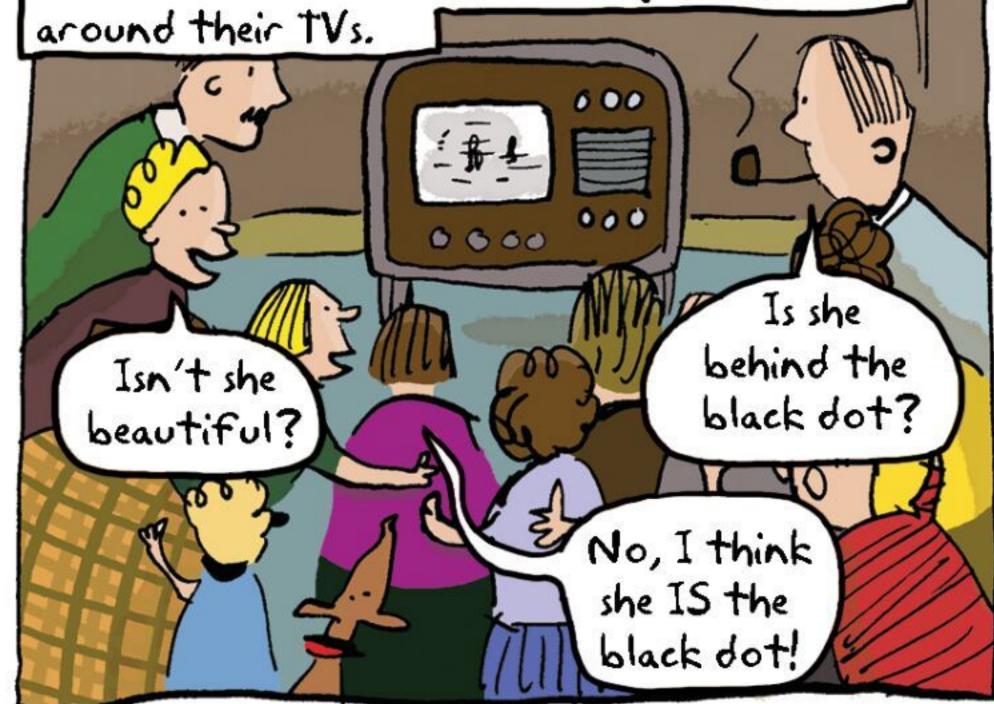
In 1936, Elizabeth's whole life changed when George V died. Her uncle became King Edward VIII, but he gave up the crown 11 months later. Suddenly, her dad was King (George VI) and Elizabeth was next in

line for the throne! My pocket money definitely) needs to go up now!

Two years later, WWII started. Elizabeth's mother insisted the family stayed at home in solidarity with other Londoners. Elizabeth and her younger sister, Margaret, put on pantomimes at Windsor Castle to raise money for troops.



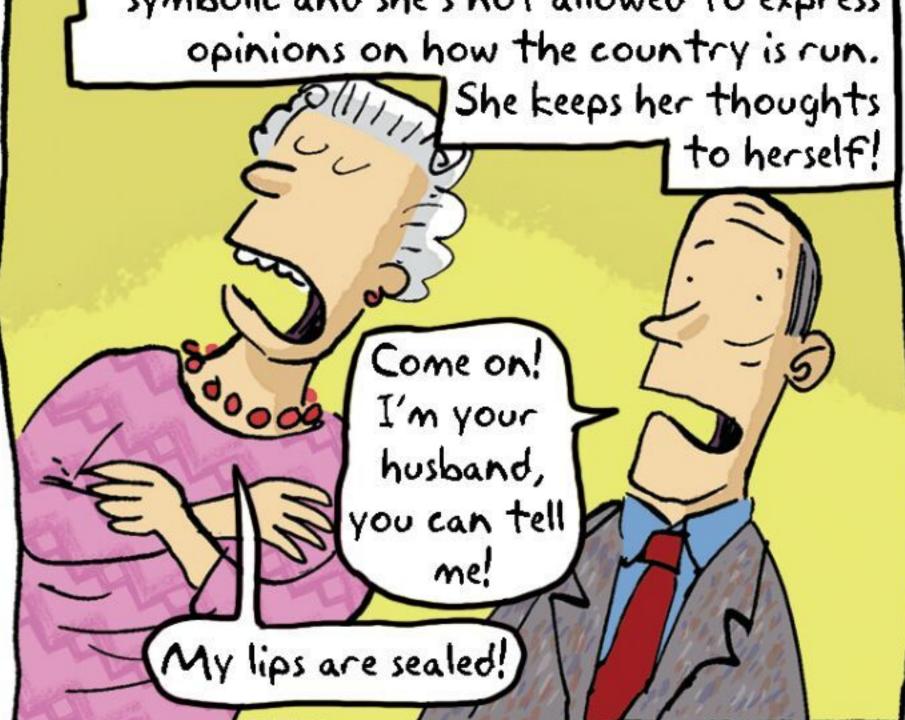
In 1952, her beloved father died and, aged only 25, Elizabeth became Queen Elizabeth II. Her coronation was the world's first major event to be televised and millions across the globe crowded



Elizabeth had married Greek Prince Philip Mountbatten in 1947, and when she became Queen they became the most well-travelled royals in history, touring Commonwealth nations (ex-Empire) all over the world!



The Queen's role in the world and at home is very different from how monarchs ruled in years past. Nowadays her reign is more symbolic and she's not allowed to express



1977 saw her celebrate 25 years as Queen with the Silver Jubilee. She had four children by then and the Royal Family had never been so popular! Street parties were held up and down the country with celebrations lasting all year!



Things didn't always run smoothly. Three of her children, Charles, Anne and Andrew, all went through divorces, and in 1992 a fire caused terrible damage at Windsor Castle. Elizabeth called it her Annus Horribilis (Horrible Year).



Charles' ex-wife, didn't make life any easier.

But she got through it, and despite recent scandals, such as her grandson Prince Harry and his American wife Meghan Markle leaving their roles as royals, Elizabeth herself remains as popular as ever.



YOUARE WHAT YOUEAT

This bright **Spanish** shawl nudibranch can be spotted crawling on corals or **fluttering** through open water near the rocky shores of Mexico's Baja California. The flashy finger-length sea slug gets its beautiful colour by **recycling** pigments from its favourite food tiny plantlike jellyfish known as **hydroids**.



NEON NUDIBRANCHS

CHECK OUT THESE EIGHT MESMERISING MOLLUSCS, ALSO KNOWN AS 'SEA SLUGS'...



PATTERN PLAY

Nembrotha **kubaryana**'s striking 'costume' of fluorescent stripes and polka dots acts as a warning sign for potential predators - when threatened, it secretes a toxic mucus from its skin! Distinguished by its often-orange edging, this slug lives in tropical western Pacific and Indian Ocean waters and can grow up to 12cm long.





SUCHA SHOW-OFF

The beautiful plumes of Cyerce nigricans are coated with a **toxic mucus** that tastes nasty to fish. Like a lizard's tail, these plumes can also break off when this sea slug feels threatened – they wriggle to distract predators while the bite-sized nudibranch makes its **getaway**. Clever!



DEADLY SURFER

The thumbnail-sized blue dragon cruises tropical oceans, using a **stomach bubble** to **float** on the surface while it searches for its favourite (and much larger) snack - the Portuguese man-o'war. But watch out! The dragon stores the poison it ingests from its prey in the tips of its frilly blue 'fingers.'



DRESSED FOR DEFENCE

Don't mess with this super sea slug! Found in shallow reefs off the coast of Indonesia and the Philippines in South East Asia, the finger-length Chromodoris annae's colourful markings make it look like it's giving us the eyeball. And its vivid blue skin is threatening – it contains toxic chemicals which deter fish from taking a bite.

DANCE FOR THE FRILL OF IT



Spanish dancers – which are the largest member of the sea slug family - can be found swirling their 'skirts' in the tropical waters of the western Pacific and Indian Oceans. They grow up to **45cm** long, crawling or swimming in search of tasty sea sponges.

FUZZY FACE

Nembrotha cristata looks like it's ready for someone to scratch behind its little black ears! Except those aren't actually ears – they're rhinophores, used for smelling. The green lips are really its tongue, and the little green wings are stinging gills. On second thoughts, forget about the ear scratching...





SPOTS, HORNS AND WINGS

Its frilly pigtails, moustache and daisy-shaped spots make Bornella anguilla look more like a cartoon character than a sea slug. This little-finger-length nudibranch, named for its eel-like way of swimming (anguilla means 'eel' in Latin), lives in the tropical waters of the western Pacific and Indian Oceans.

Get the scoop on India's most famous building - the Taj Mahal...

This stunning structure might look like a fancy home for important royalty. But no one has ever lived here – it's actually a tomb. So who is buried inside the majestic mausoleum? Read on to find out!

MEETTHEMAKER

For over 200 years, the Mughal Empire ruled over parts of what is today India, Pakistan, Afghanistan and Nepal. To become emperor, a royal male had to prove himself to be the best choice before being named as heir - but the family could still change its mind. That's what happened to Shah Jahan, a third-born son who had been named heir but later fell out of favour. When his father died, Shah Jahan returned home in 1628 to reclaim the throne. And he put his rivals – including his brother and a few nephews - to death!

The new emperor loved architecture and art, and he adored his second wife, Mumtaz Mahal. (Emperors at this time usually had many spouses to gain power through their families, and Shah

Portraits of Mumter Mahal (Teff) and Shah Jahan

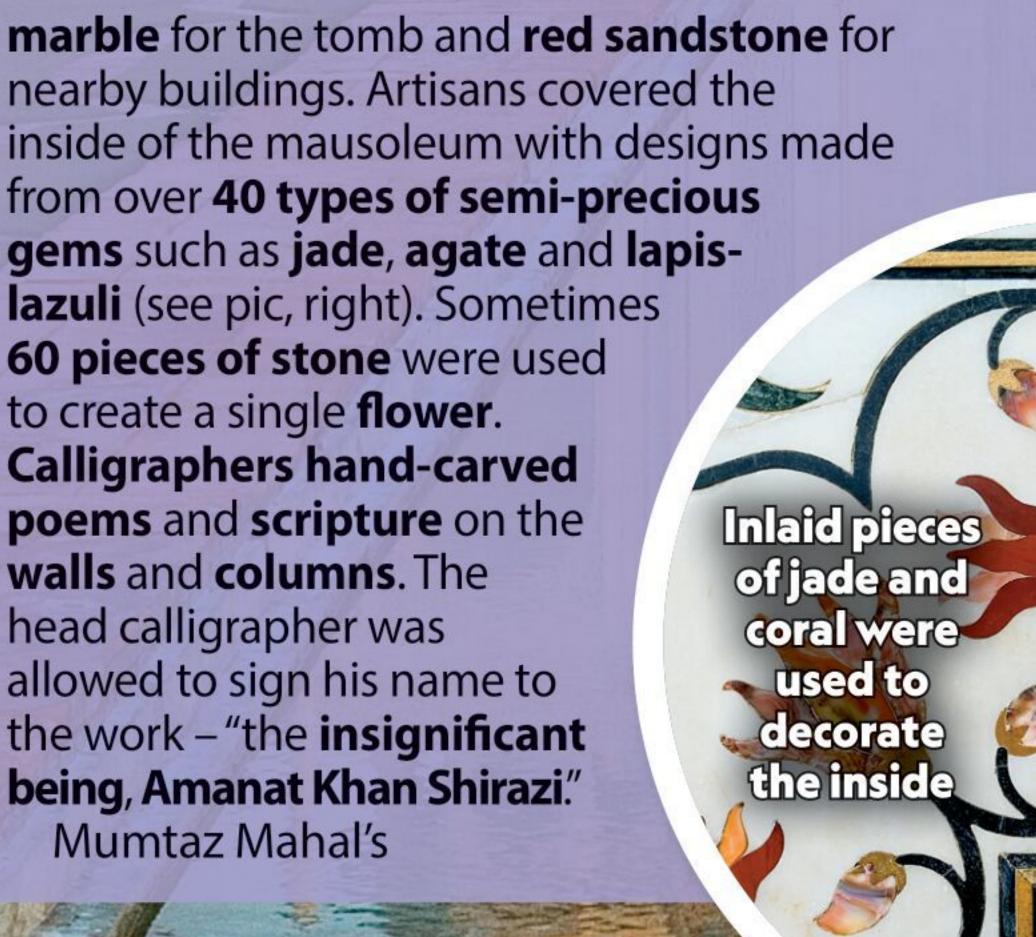
Jahan had three wives.) Mumtaz Mahal travelled with him everywhere, even on military campaigns. The couple were married for nearly 20 years before Mumtaz Mahal died in 1631.

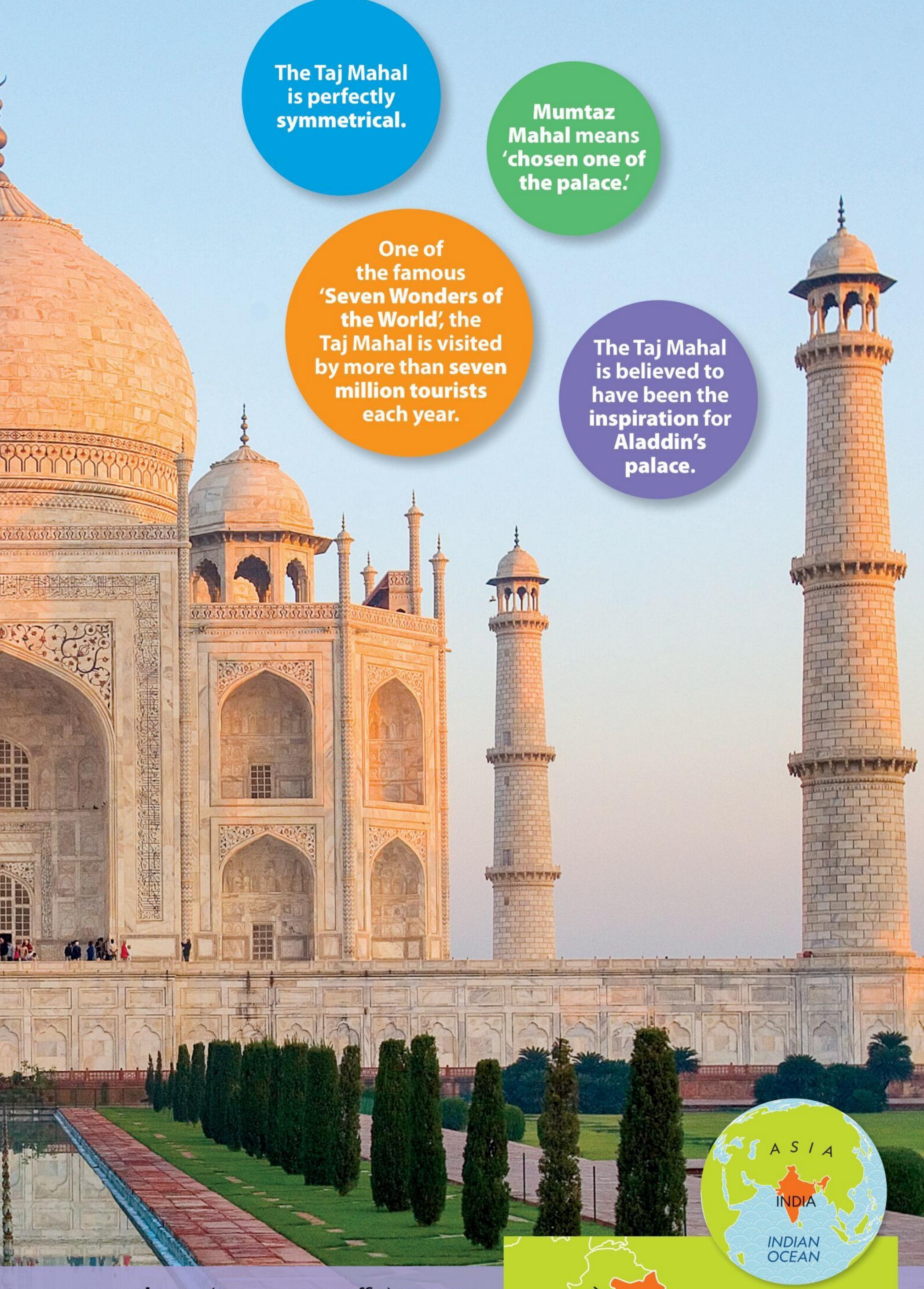
Legend says that after his wife's death, Shah Jahan's black hair turned white from grief. He decided to build a tomb that would be a grand monument for his lost love.

"Nothing had ever been built like this to honour a queen before," says Mughal art historian Mehreen Chida-Razvi.

BEST BUILDING

It took nearly 20 years for the massive, 17-hectare complex to be completed. About 20,000 craftsmen baked bricks made of **mud** to form the building's structure. They then covered them in white from over 40 types of semi-precious gems such as jade, agate and lapislazuli (see pic, right). Sometimes 60 pieces of stone were used to create a single flower. Calligraphers hand-carved poems and scripture on the walls and columns. The head calligrapher was allowed to sign his name to the work - "the insignificant being, Amanat Khan Shirazi."





Workers clean the Taj Mahal using clay and distilled water

SOLVINGA

Every **few years**, the Taj Mahal gets a mud bath (above) to remove yellow-brown stains from the white marble. But the cause of these stains was a mystery until environmental scientist Mike Bergin decided to investigate.

In 2012, Mike placed marble tiles on the monument for two months, and then used a special high-powered microscope to look at the stained tiles. He found tiny particles of pollution from cars and the burning of wood, rubbish and dung. The pollution absorbed light instead of reflecting it, which created the stain.

As a result, the Indian government has restricted the of cars near the monument to help decrease the pollution. Let's hope it improves the

burning of trash and the driving health of local people, too!

sarcophagus (ornate stone coffin) appears to have been placed in a room at the centre of the Taj Mahal. But it's actually a cenotaph, a false tomb that allows visitors to pay their respects without disturbing her actual remains. Her body was buried in a crypt underneath.

TOMB TRUTH

"It's likely that Shah Jahan would've built his own tomb nearby," Mehreen says. But in 1657 he fell ill. Seizing the chance to become ruler - just like Shah



Jahan had done 30 years before – one of his sons imprisoned him in a fort. The former ruler's only comfort was that he could see the Taj Mahal from a window.

Shah Jahan died eight years later, but his son didn't honour him with a majestic tomb. Instead, his body was brought to the Taj Mahal at night and his sarcophagus was placed beside his wife's, even though the tomb was built to honour Mumtaz Mahal - and no one else.

Over 350 years later, people still marvel over the beautiful building. And Shah Jahan might be happy that they continue to honour his beloved wife.

SIMON & SCHUSTER BOCKBUNDLE

Get your hands on this **bumper book** bundle that'll keep you entertained for all of 2021!

In *Everdark*, join **Smudge** and grumpy monkey Bartholomew as they adventure in a world of goblins, dragons and **harpies**. Then travel to a **summer** camp in China in Dragon Mountain, where **Billy Chan** and fellow campers stumble upon an age-old secret – four powerful warrior dragons, hidden deep within a nearby **mountain**.

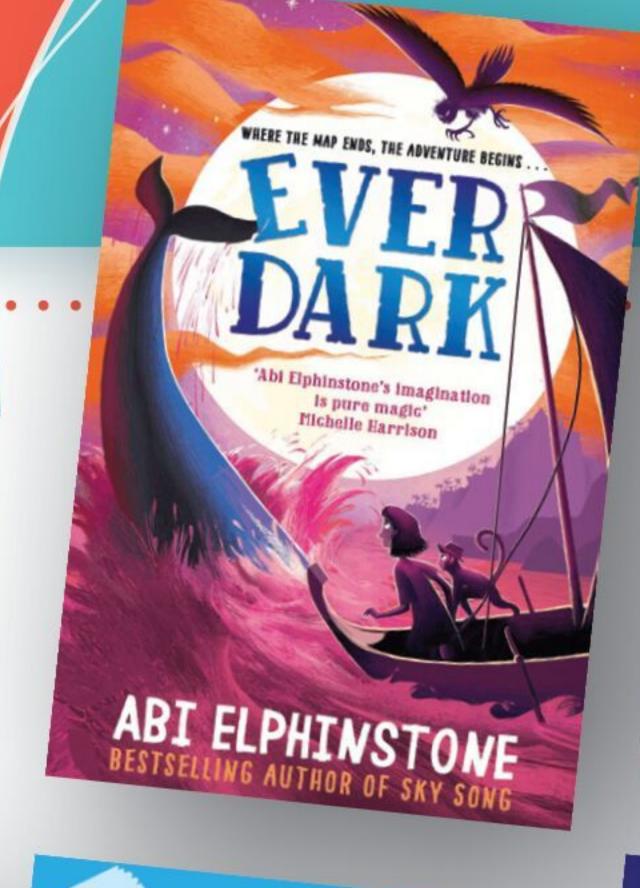
Pizazz vs the New Kid is brimming with quirky illustrations and comic strips, as reluctant superhero Pizazz tries to get used to a new kid at school, while The Perfect Parent Project tells the story of foster kid Sam's journey to find his perfect family.

And in *The Day I Fell Into a Fairytale*, Lana discovers a portal into a dark and dangerous fairytale world. Can she defeat the evil witch before it's too late?

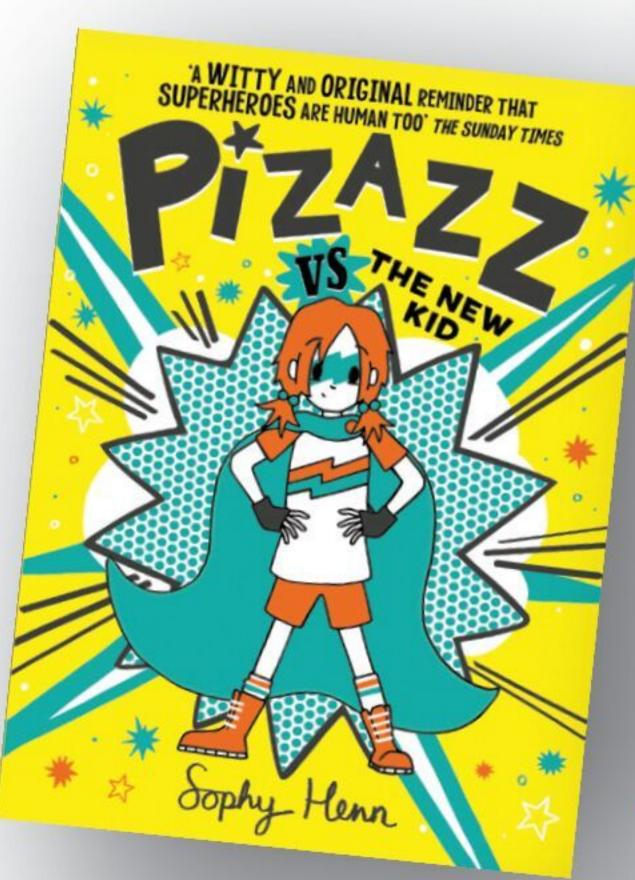
Twelve bookworms will win nine brilliant books – these **five** plus **four** other top titles – Pizazz, Rumblestar, Jungledrop and The Bubble Boy.

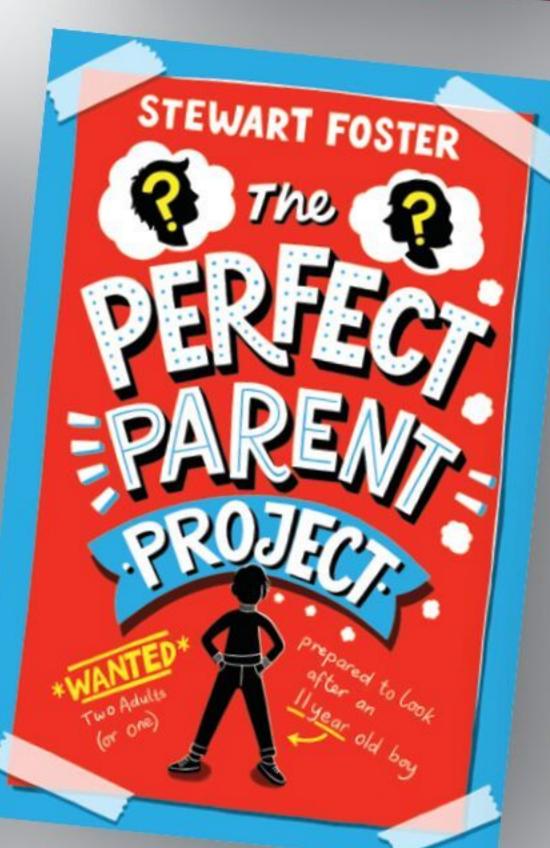
Read more at simonandschuster.co.uk

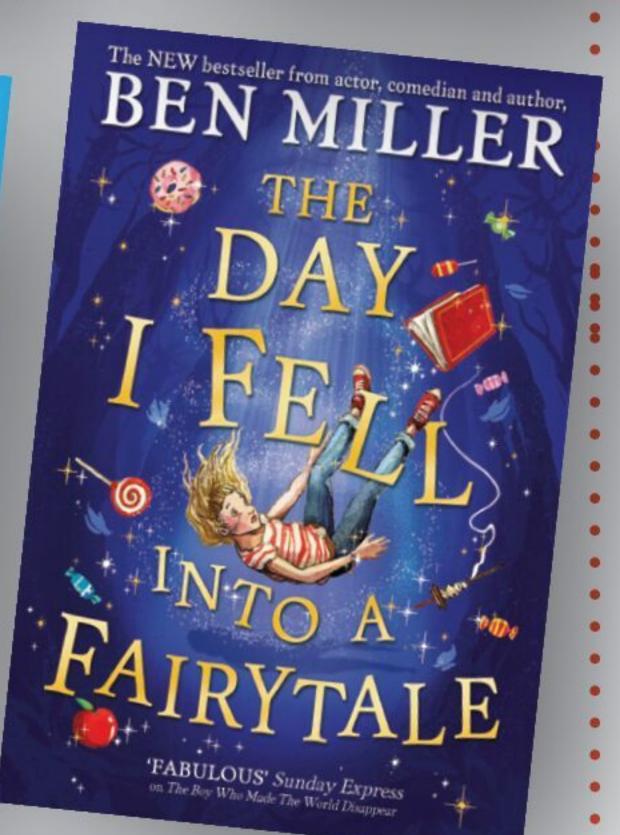
Q Which of these is the opposite of 'dark'? a) Gloomy b) Murky c) Bright

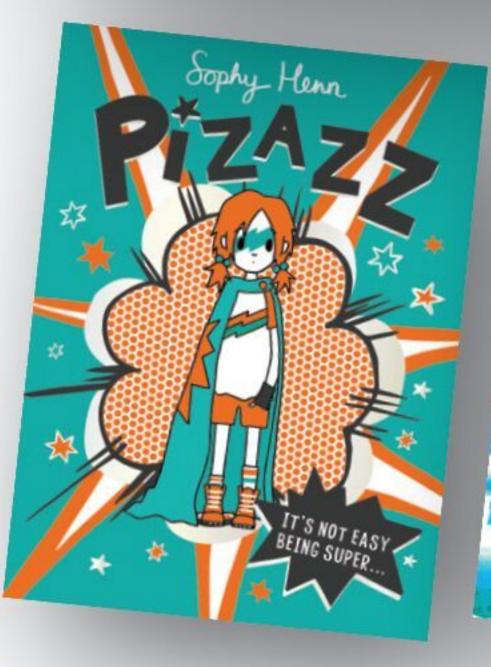


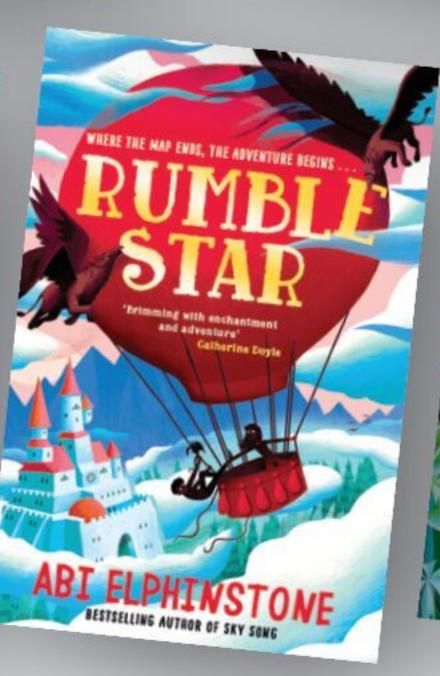




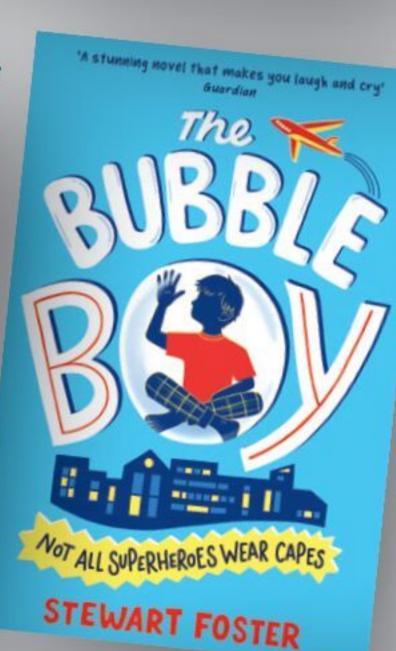












WIN! OSMO LEARNING TECH

Got an iPad? Then make learning more fun with Osmo! The **Genius Starter Kit** lets you develop your English, Maths, creativity and problem-solving skills as you think and play in the real world. Just place your tablet in the Osmo Base with the red reflector over the camera and you're good to go. Then watch as your creations come to life on your tablet screen. Wow!

Go on an exciting **addition**and-subtraction adventure with Math Wizard and the

Magical Workshop (below, right). You'll brew potions and use magic sparkles on your spell-binding quests, adding and subtracting balloons to help dragons fly.

Four **readers** will bag **both Osmo kits!**

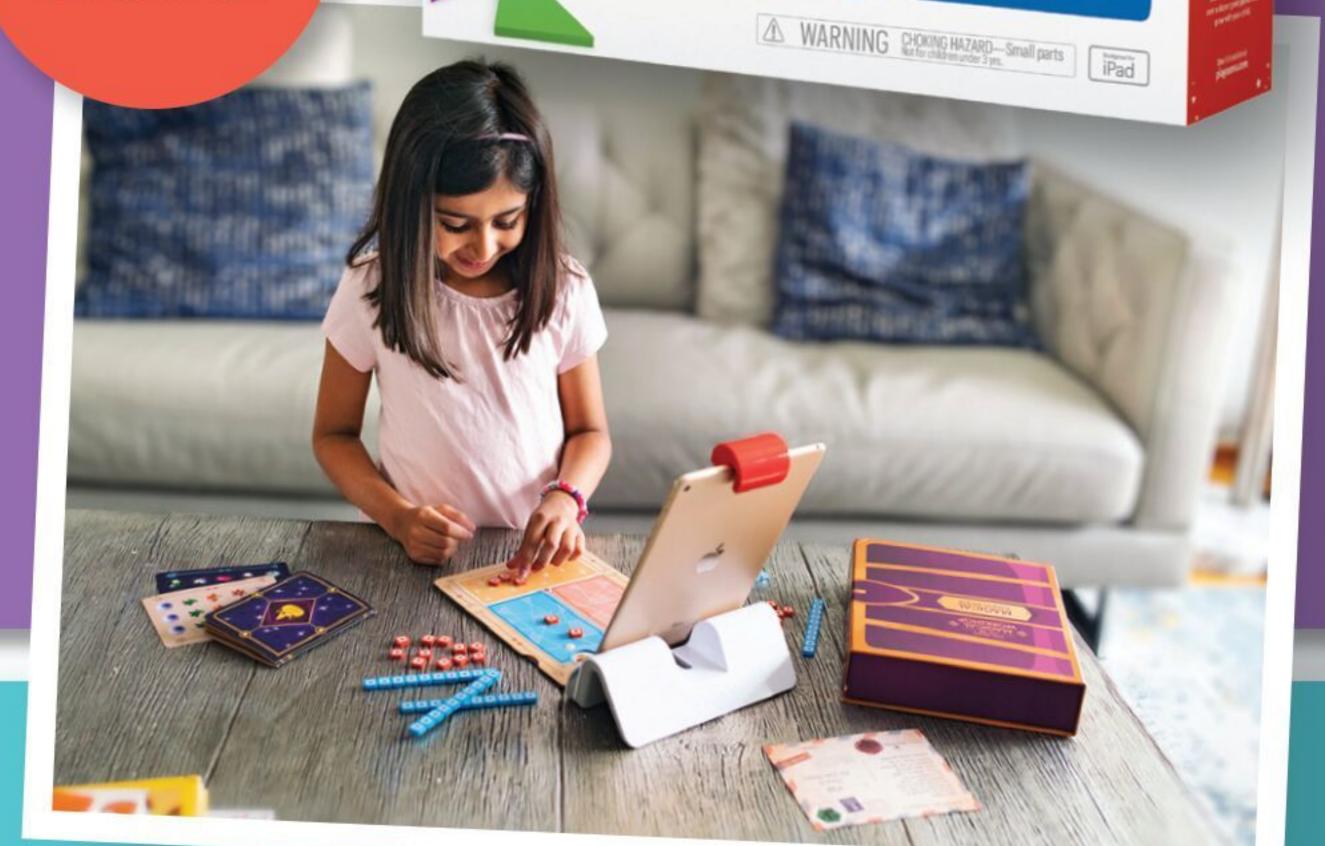
Available at PlayOsmo.com

Which one of these elements does NOT make up water?

a) Aluminium b) Oxygen

c) Hydrogen

Fire Tablet version also available!



Enter ALL comps at natgeokids.com by 11 February

9 Chances to win!



WIN! THEME-PARK SLEEPOVER

After the roller-coaster year we've just had, what better way to blow off steam than on a real-life roller coaster?!

Gulliver's Family Flexi Sleepover lets you enjoy a fun-filled day out at one of their four UK theme park resorts. Then, after a day packed with exciting rides and attractions, wind down at one of their amazing themed lodges.

Snooze in **tree-house bunk-beds** at Gulliver's World or have a dino-tastic

stay at Gulliver's Valley's Lost World Lodge. You could become a Pirate, Princess or Explorer at Gulliver's Kingdom or have a wild evening in the Jungle Safari Lodge at Gulliver's Land.

Two winners will get a Family Flexi Sleepover, which can be redeemed at any of these four parks. One runner-up will scoop a family day ticket to any of the four parks.

Zip over to gulliversfun.co.uk/shop/

Q Unscramble these letters to reveal a ride you might find in a theme park... ATEPIR HISP

Family Flexi Sleepover and family day tickets are for six people (max two adults). All prizes can be redeemed within 24 months. Travel not included.



HOW TO BE A HERO BOOK

Love Viking mythology? Then make sure you get your hands on this book!

When trainee Valkyrie* Lotta discovers an unconscious Viking called Whetstone, she mistakenly thinks he's a **hero** who's been defeated in battle, and takes him to Valhalla, where **dead warriors** live happily ever after with chief Viking god Odin.

But Whetstone isn't dead. Nor is he a hero. He's a thief who's **lost** a precious talking cup and is desperate to **cover up his**

mistake. So Whetstone and Lotta

embark on a quarrelsome journey to find the cup and gain their heroic status for real. Unfortunately, Loki, the trickster God, is desperate to get his hands on the cup, too, and he plans to create chaos across the nine worlds. Uh oh! Can Whetstone finally become a hero when it matters most?

A mighty 70 winners will nab Cat Weldon's epic book!

Find out more at panmacmillan.com

Who was the Viking god of thunder? a) Odin b) Thor c) Heimdall

* In Norse mythology, Valkyries are magical women who bring dead heroes to Odin at Valhalla.

A WHOLE YEAR OF ZOO VISITS

Meet all creatures great and small with this incredible prize from **ZSL**!

The ZSL Silver membership package gives you unlimited entry to ZSL London and Whipsnade Zoo for a whole year! That means you and your family can get up close to the planet's most incredible creatures – from lions, tigers and hippos to brilliant birds like

flamingos and penguins. You'll also get exclusive digital member updates from ZSL, a charity that's devoted to the worldwide conservation of animals and their **habitats**. Nice!

One lucky animal lover will win a one-year Silver membership package, plus a £250 gift voucher to spend on whatever they like at **ZSL's online**

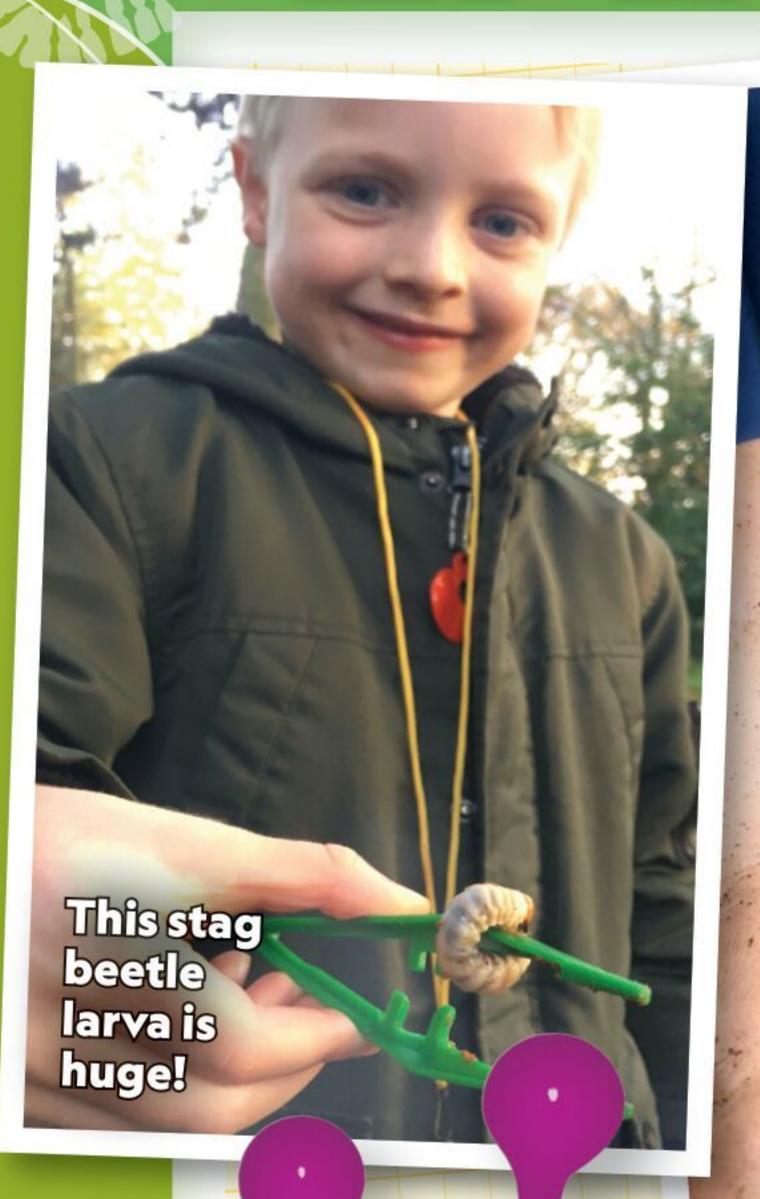
shop (zsl.shop.org) or in one of the zoo's gift shops – from **T-shirts** and books to puzzles and cuddly toys!

Silver membership is for two adults and up to four children. Find out more at zsl.org/membership



What is the world's biggest big cat? a) Siberian tiger b) Snow leopard c) Cheetah

JUNIOR



VILDLIFE WATCH



I am a keen bug enthusiast and love going on adventures looking for them! One of my favourite places is the Tarn Bird Sanctuary in Southeast London. I found my

first ever smooth newt there, after turning over a big stone. I am really careful and gentle with the creepy crawlies I find, and I always put them back in their natural habitat.

Amazing finds, Henry! Did you

of newt live in the UK?

LOLZ

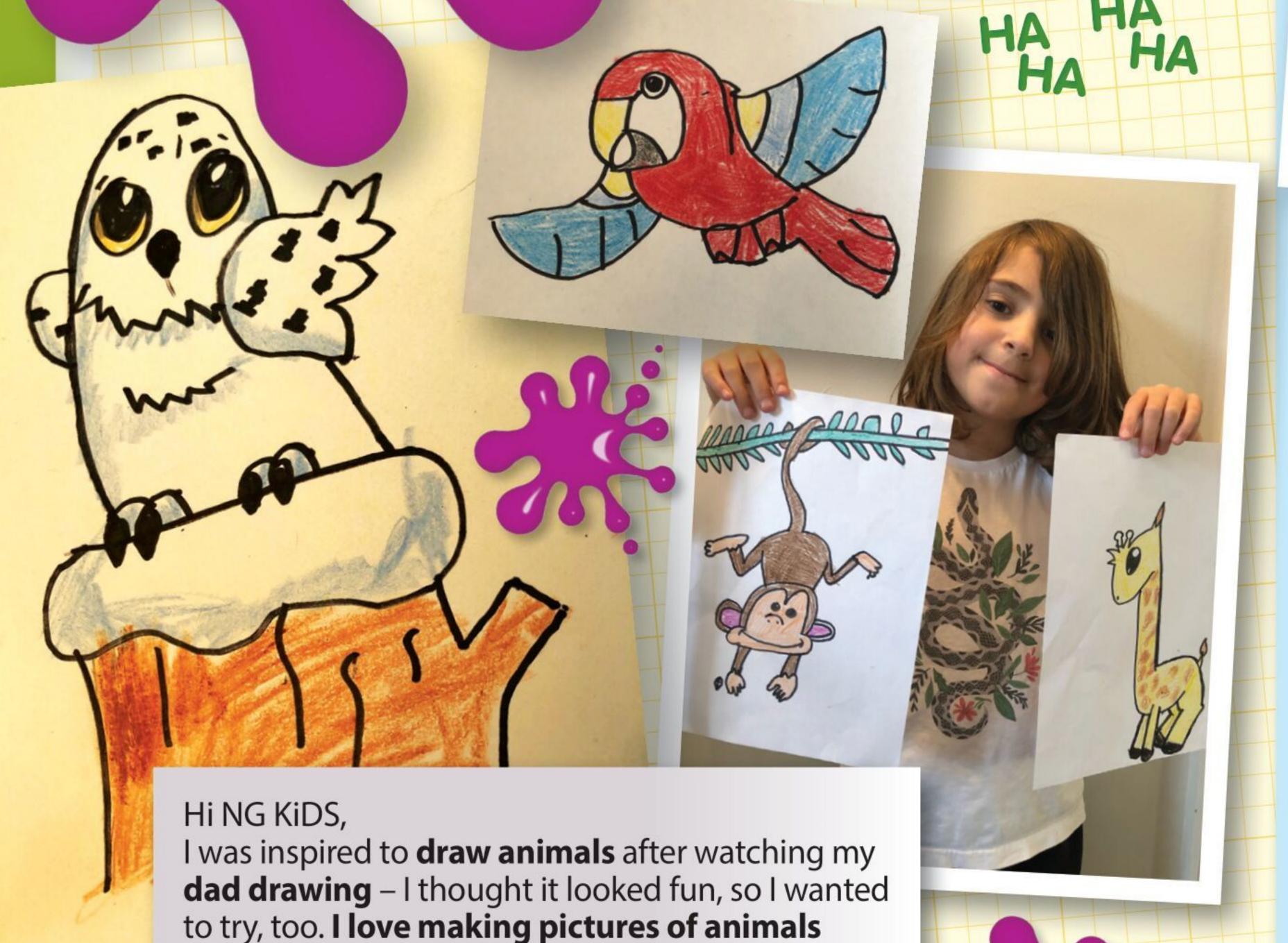
Henry got up

close to a...

Q What did the angry emoji say to the sad emoji? A You're so emoji-nal! Aoife, 11

... smooth

newt!



because they have cute eyes and I like learning

Your owl is great, Luca. Bet you had a hoot

about nature. My favourite animals to draw are owls.

ECO HEROES



They even found supermarket trolleys!

In November I did a sponsored litter pick around my hometown, helped by my eight-year-old brother Matthew. We collected 40 bags of litter and two shopping trolleys! We raised over £300 for the WWF. I really enjoyed making our area cleaner for people and wildlife and am thankful for the support I received. Andrew, 9

Wow, that's a lot of litter. Top work!

Luca, 6

doing it!

We want to hear from YOU! Email kids@ngkids.co.uk with your artwork, jokes, craft pics and pet photos; tell us about your wildlife sightings, hobbies and interests, and share your opinions! We'll print a selection here. Every reader featured on these pages this month will find out how to become a waste warrior with their own copy of Kids vs. Plastic from NG KiDS Books!

Available at harpercollins.co.uk



Last year, before lockdown, my family visited **Tromso** in **Norway**. The snow was so deep we couldn't use the playground equipment, but we still had lots of fun making **snow angels**.

One night we stayed up very late so we could see

Callan (left) and Lilly

had fun in the snow!

the Northern Lights (above). It was amazing. It's also called the Aurora Borealis. It was so magical to see the green ribbons of light in the sky.

> For a few nights, we stayed in the mountains at Camp Tamok. It was extremely cold, especially when the temperature reached -20°C - our toes felt like they might freeze. But we soon warmed up in a Sami Lavvu (a type of tent) by the fire.



Wow, what an experience, guys! The Northern Lights look stunning. Did you know that the Southern lights are called Aurora Australis?



POETRY CORNER

Dancing

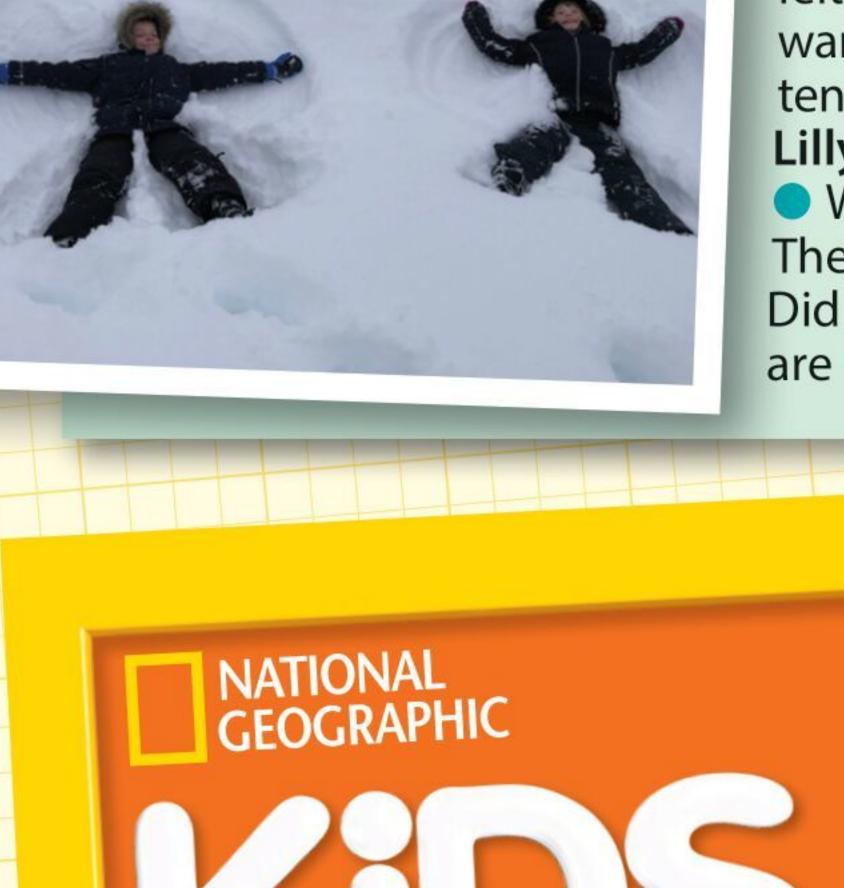
My feet grew cold as I danced through the grass. I sprouted wings and flew up above the clouds in the midnight air. As it filled my lungs, I felt free. Flying above the clouds, I did a somersault, and let my mind soar free.

Mary, 10

Beautiful poem, Mary. We felt like we were soaring with you!



FUNSTUFF





and attention

Owner: Marika, 11





Your grandma must

have been delighted!

GAMES, LAUGHS, AND LOTS TO DO!



Across

- Scottish song sung to bid farewell to the old year at the stroke of midnight on New Year's Eve. Auld Lang ____(4)
- According to the Chinese zodiac, 2021 is the year of the ___(2)
- Twelve-month chart that helps you keep track of the year (8)
- What hedgehogs do during winter (9)
- 12 Popular arm-swinging dance move. Also a type of dental string. The _
- 14 Where laws and decisions are made about the UK. Houses of
- 17 Promise to yourself made in January (10)

- Quiet place where you can read or borrow books (7)
- When February has 29 days 2020 was one of them, but 2021 isn't (4, 4)
- 20 Colourful explosions set off during celebrations (9)
- Long, thin amphibian with a tail, sometimes found under rocks by ponds (4)
- 22 Arms and legs (5)

Down

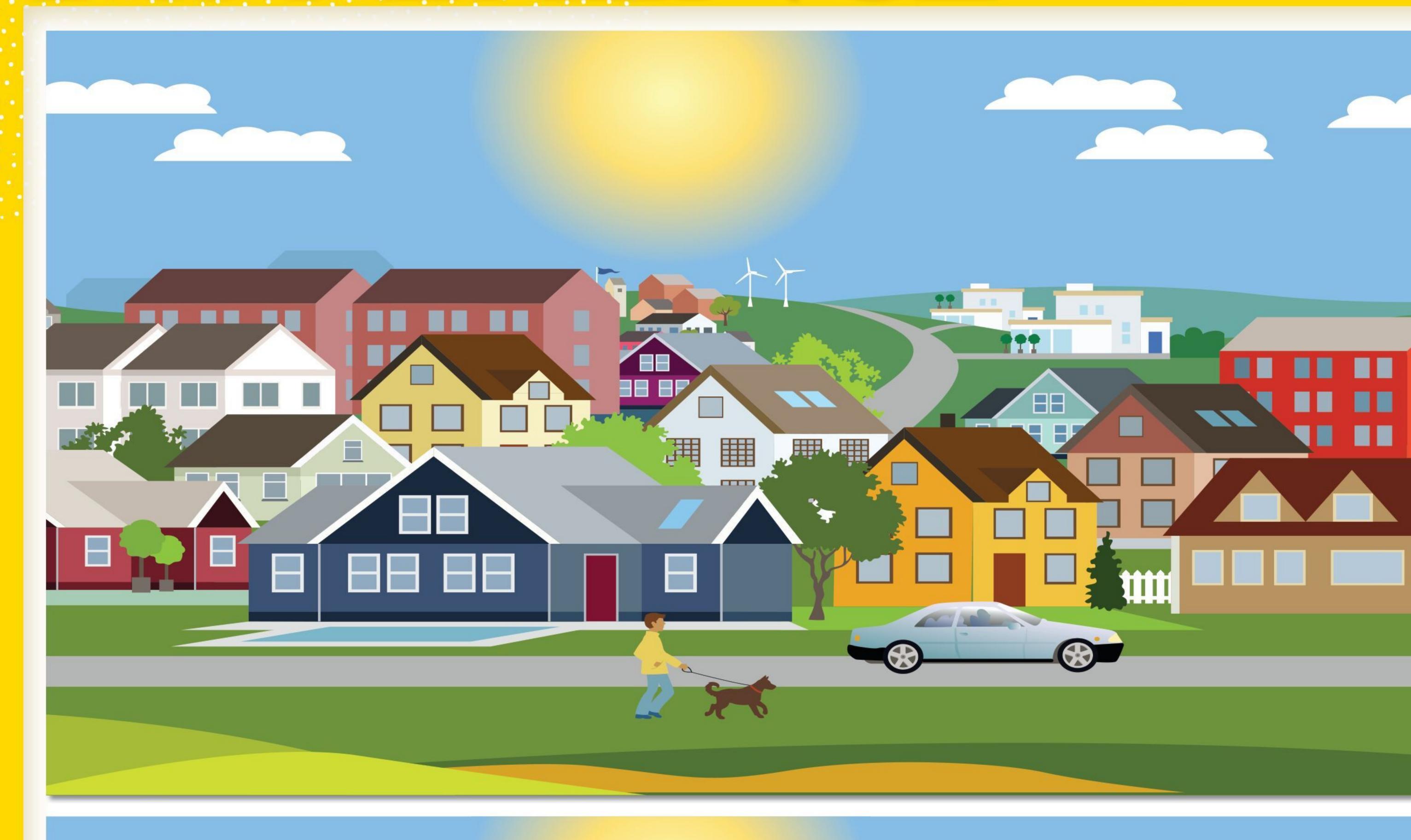
- Alternative name for New Year's Eve in Scotland (8)
- 2 Holy book for Christians (5)

- 3 Cold month, named after the Roman god Janus (7)
- Religious name for Pancake Day, on 16 February this year. Tuesday (6)
- Person who performs tricks (8)
- Books, newspapers and magazines are examples of these (12)
- 10 Say "Cheese" for one of these! (10)
- Saint who has a romantic day named after him in February (9)
- 13 Place where you can study for a degree. Cambridge, for example (10)
- 15 Painting of a person (8)
- 16 Number of time zones in Russia (6)



Can you find **20** differences between these two towns?

Answers on page 49









LOCKDOWN LOWDOWN

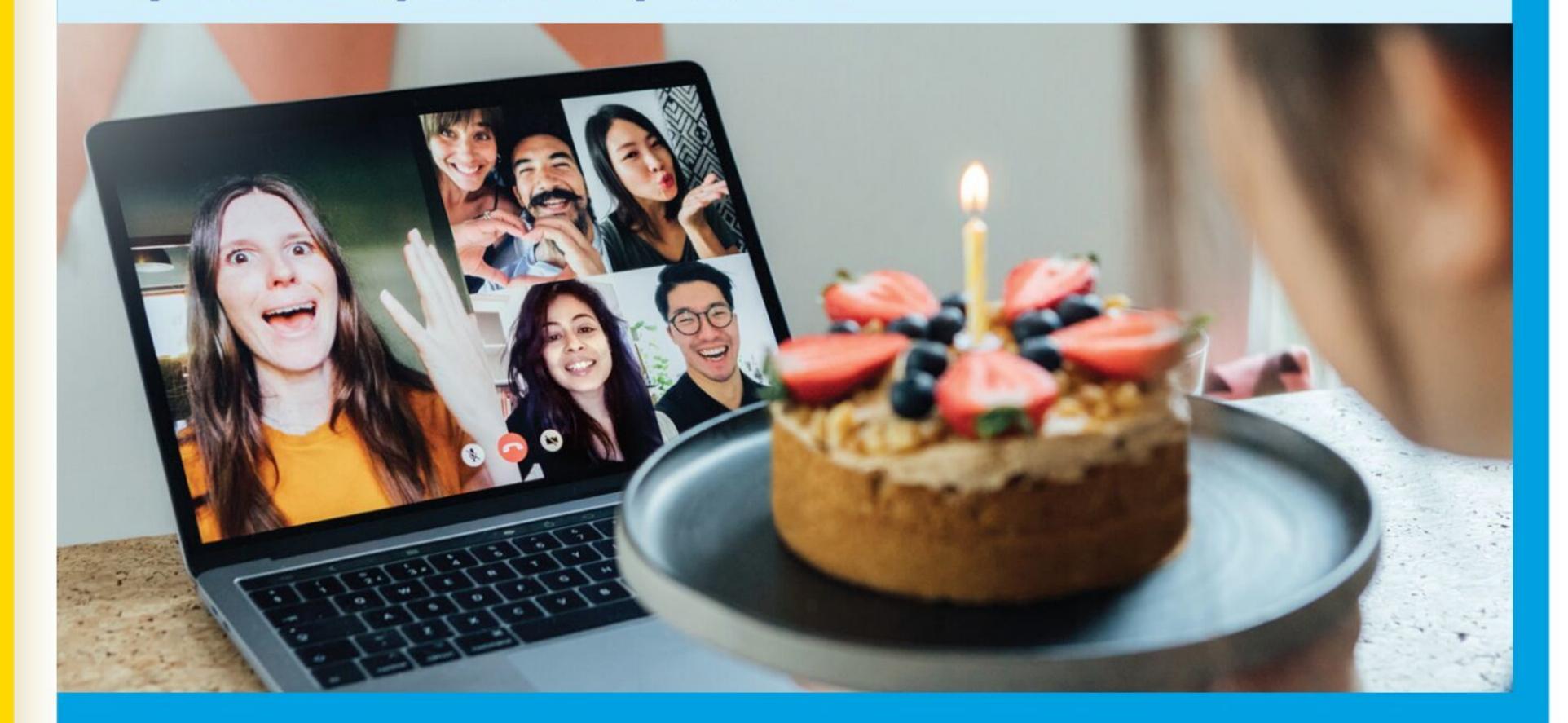
- Which item did people start panic-buying in March, causing supermarket chains to ration sales?
 - a) Tinned soup
 - b) Toilet paper
 - c) Haribo sweets



- Who became known as the nation's PE teacher after his weekday exercise classes on YouTube became a huge hit between 23 March and 22 July?
 - a) Boris Johnson 🔲 b) Joe Wicks 🔲 c) Mo Farah 🔲
- 100-year-old Captain Tom Moore raised over £32 million for NHS charities during lockdown in April, and was knighted for his fundraising efforts! What was he sponsored for doing?
 - a) Walking 100 laps of his garden \square
 - b) Fitting 100 items inside a matchbox
 - c) Sitting in a bath of baked beans for 10 hours



- What did children across the UK start displaying in their windows to cheer up their neighbours and show appreciation to the NHS?
 - a) Union Jack flags \square b) Christmas trees \square c) Rainbow paintings \square
- What's the name of the video conferencing software that many families used to stay in touch with each other during lockdown?
 - a) Boom b) Zoom c) Vroom



MISSING WORDS

Fill in the blanks in these newspaper headlines!

- Hail stones the size JANUARY fall during storms in Canberra, Australia
 - a) Golf balls \Box b) Grapefruit \Box
 - c) Footballs
- New Zealand's Baldwin APRIL Street reclaims titles as the world's street
 - a) Smelliest \square b) Most expensive \square
 - c) Steepest
- UK government unveils plans to ban_

advertising before 9pm in the UK

- a) Computer game
- b) Loo roll (a) Junk food (a)
- 3 October becomes UK's day on record
 - a) Hottest
 b) Wettest
 OCTOBER
- Scotland's most vulnerable to be given free _ help cope with lack of daylight during lockdown.
- a) Sun lamps b) Spinach
- c) Vitamin D supplements



FAMOUS FACES

Match these people with the reason they made the news in 2020!



Won series 20 of the Great British Bake Off.

Let's take a look back at the craziness of last year and see what we can remember!

Answers on page 49

SPORTS & ENTERTAINMENT

- Which of the following events was NOT completely cancelled this year?
 - a) 2020 Tokyo Olympics \Box b) The London Marathon \Box
 - c) Glastonbury
- 2 Star Wars spinoff
 The Mandalorian
 arrived in the UK on
 24 March, on the new
 Disney+ streaming
 service. The baby
 version of which
 character featured
 in the show?



- b) Darth Vada
- c) Yoda



- Which historical event was broadcast on Channel 4 on 7 June?
 - a) The 1966 Fifa World Cup Final between England and Germany
 - b) The Coronation of Queen Elizabeth II in 1953
 - c) The Battle of Hastings in 1066
- Spring and Autumn Watch host Chris Packham was joined in presenting duties by which family member in May and October?
 - a) His step-daughter Megan
 - b) His sister Jenny
 - c) His pet squirrel Dave



- Which Roald Dahl book got made into a movie for the second time and was released this October?
 - a) The Witches \Box b) James and the Giant Peach \Box c) The Twits \Box

ANIMAL JUMBLE!

Which critically endangered creature is the coronavirus pandemic thought to have spread to humans from?

LINGOPAN

An emotional support animal called Larry attended Black Lives Matter protests in America during 2020 to help calm crowds and ease tensions. What type of creature is he?

ALMALA

Five newly discovered species of which animal were named after Marvel superheroes in July?

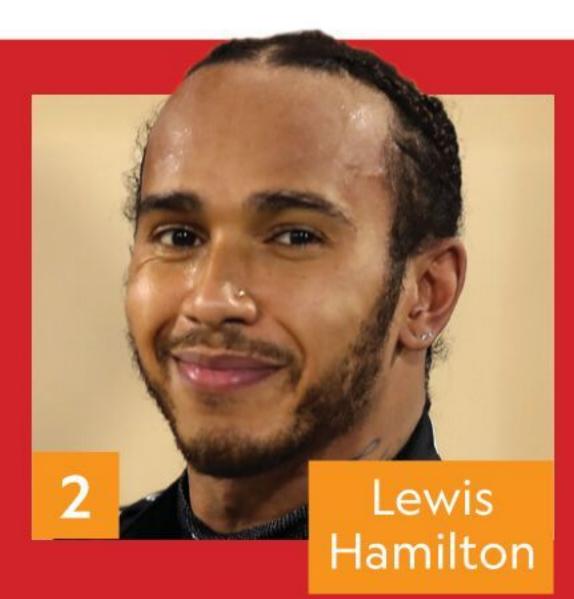
YIF

Which creature was discovered alive in New York City's Rockefeller Center Christmas Tree in November, having been transported there from a forest.

LOW ____

President-elect Joe Biden broke his foot when playing with one of his pets in November. What breed is it?

REGNAM SHEDHERP



government advisor angered nation by breaking lockdown to visit a castle.



Became Prime

Minister of

New Zealand for a second term.



Man Utd footy star campaigned to end child hunger in the UK.



Voted in as the USA's Vice-President-elect in November.



Became the most successful racing car driver of all time with 92 Formula-1 wins.

Animals often blend in with their environments for **protection** or to **help** them hunt. Find the creatures listed below in the pictures, writing the letter of the **correct** photo next to the name of each animal. Answers on page 49

1. Stargazer (a type of fish) _

2. Arctic fox

3. Screech owl

4. Harlequin crab

5. Katydid

6. Common chameleon ___

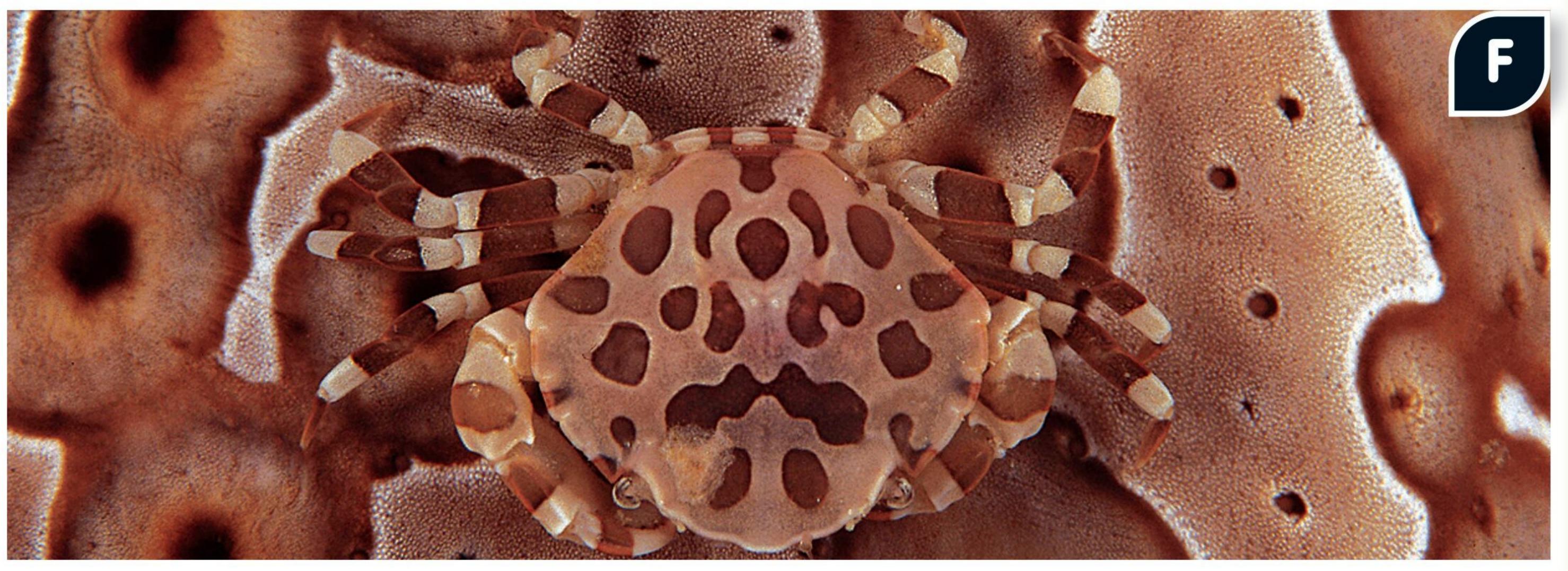






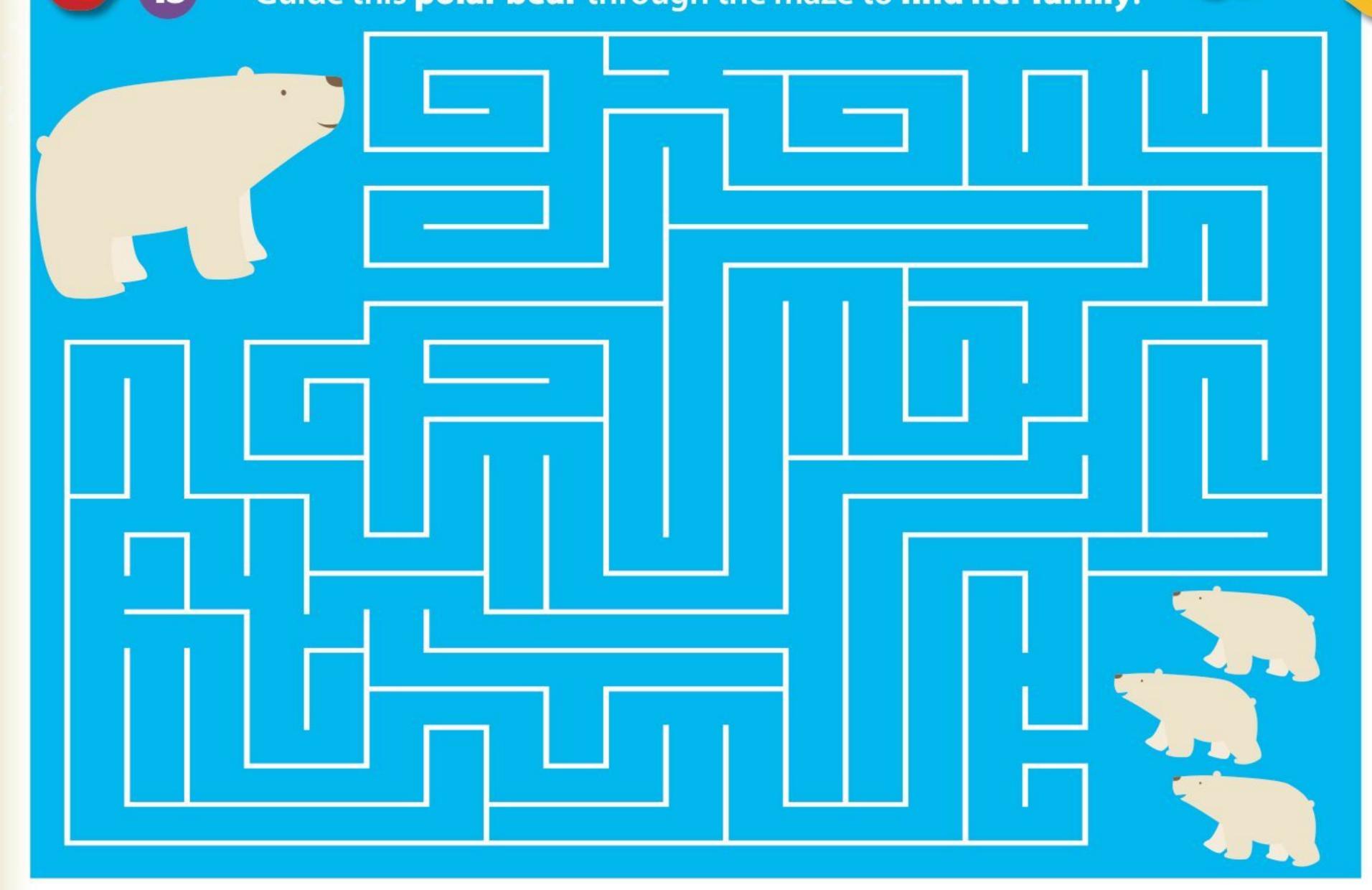






POLAR PALS

Guide this polar bear through the maze to find her family.



Can you find the answer to each of the sums?

B 15 ÷ 3 =

 $4 \times 8 =$

G 12 + 18 =

 \mathbf{G} 32 – 7 =

D 89 - 22 =

 $6 \times 9 =$

CLUE! The answers are all here...

30 44

28 54

5 32

Fill all the empty squares so every row, column and 3x3 box contains all four different stars.

	2
	2

GAME GRID

Try to fit these **sporty words** into the grid as quickly as you can!

BASKETBALL FOOTBALL GYMNASTICS **ICE SKATING** RUGBY RUNNING TENNIS





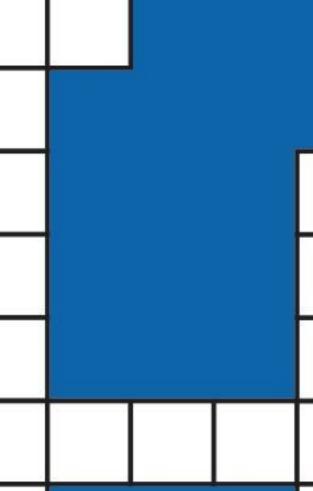
We've added

some letters

to get you











TRAINERS



Answers on page



Which scrummy snack is only shown **once** on these pages?



Fill in the missing letters to spell out some helpful New Year's resolutions... HE_P OTH_RS T_RN O_F LIGH_S SAV_ W_TER _E K_ND W_LK WH_N YOU C_N R_CYCLE M_RE

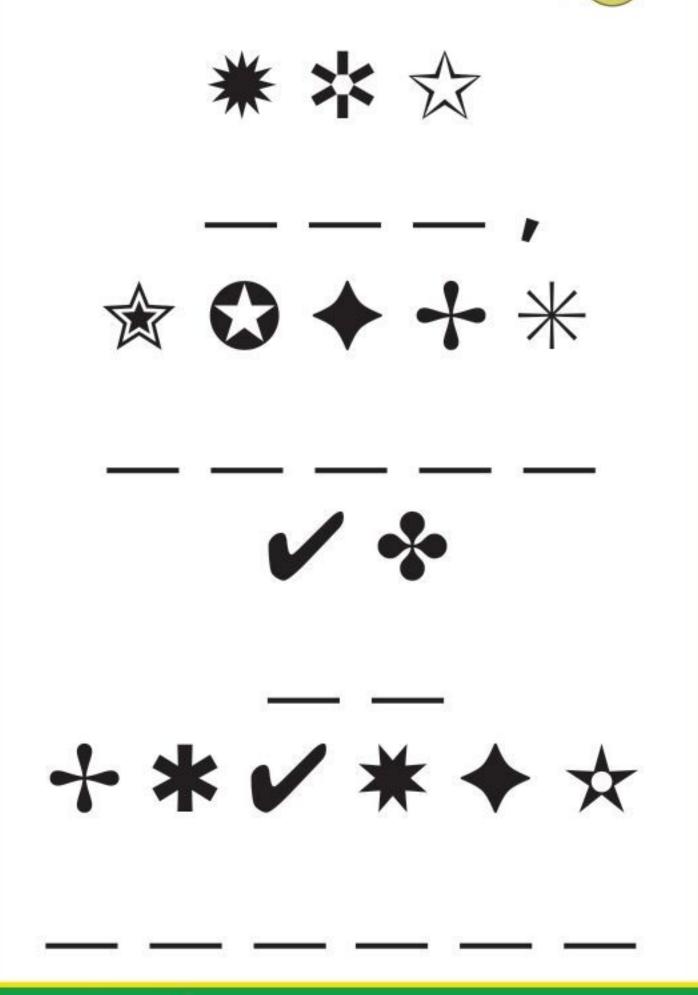
CRACK THE CODE

Solve this **code** to complete our roar-some lion fact!

LION CODE

$\times - A$	* - N
☆ - B	V - 0
* - C	* - P
→ - E	- % − R
⊘ - H	☆ - T
*-	※−U
•	A \ A/

A baby lion can be called a...



Use the first letter of each of these things to reveal a secret season.

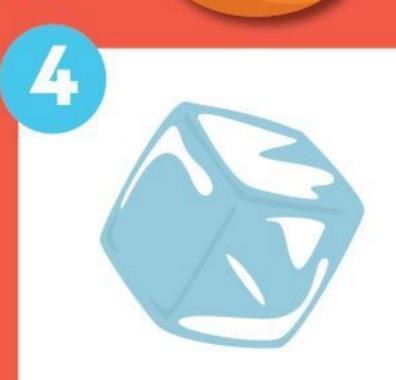




_SE L_SS PLA_TIC



GO GR_EN









FUN STUFF

BIRD Encourage feathers friends to your gar with this feeder. It's easy-peasy orange squeezy!

Encourage feathered friends to your garden with this feeder.



- Large orange Chopping board and knife Sharp pencil Ribbon or string Mixing bowl Mixed seeds, unsalted peanuts and raisins 1/4 block of lard – leave it out of the fridge for 30 minutes first
- Grated mild cheese (optional)



First, cut an orange in half across the middle and scoop out the flesh. This will form a cup for your bird food.



Poke two holes in the base of the orange skin with a sharp pencil, about 3-4cm apart. Then thread the ribbon or string through either side.



Now, chop the lard into rough cubes and pop them into a mixing bowl.



Add some seeds, nuts, raisins and cheese, then scrunch it together. Use a spoon if you prefer.



Try to hang your feeder in a place that's quiet and where the birds

Make sure the ribbon is at the sides of the orange 'cup', then pack the seed and lard to set for 30 minutes. Tie it up in your

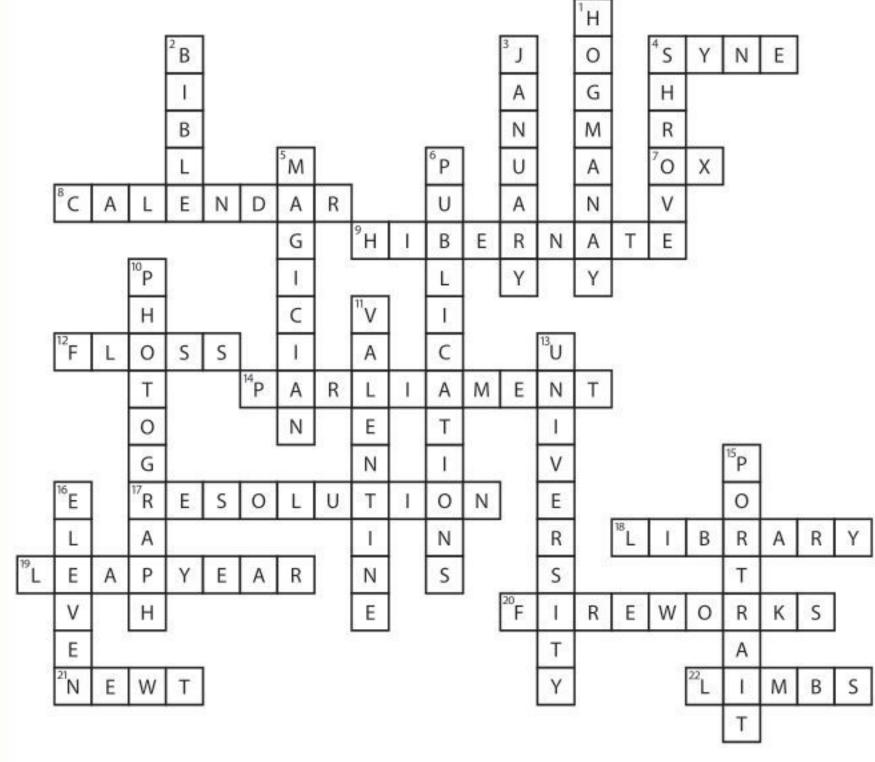
TOP TIP

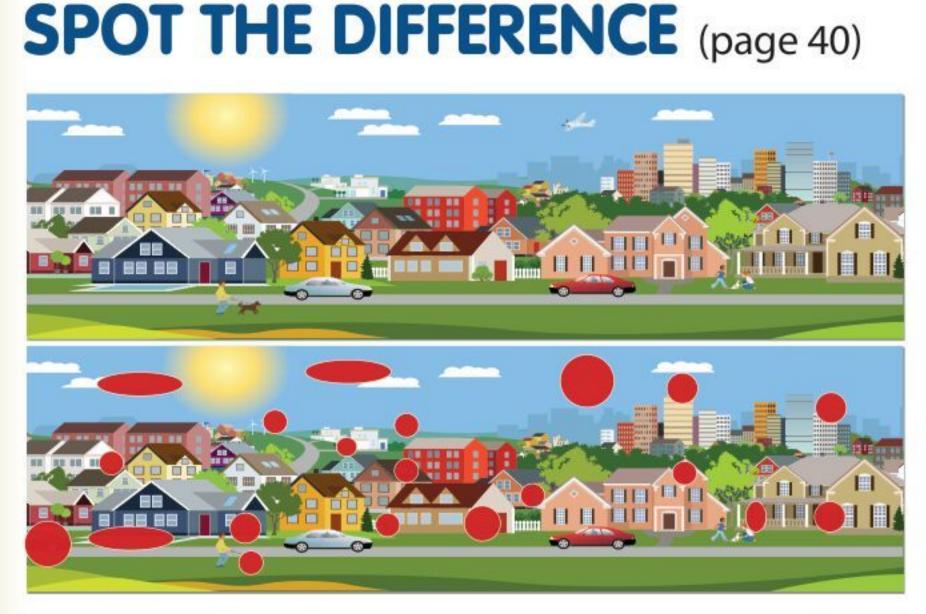
mixture inside. Put it in the fridge can't be ambushed by cats! garden or balcony and then watch the birds tuck in!

FUNSILIFE

NEW YEAR CROSSWORD!

(page 38)





THE BIG QUIZ 2020!

(page 42-43)

LOCKDOWN: 1-b) Toilet paper; 2-b) Joe Wicks; 3-a) Walking 100 laps of his garden; 4-c) Rainbow paintings; **5-b)** Zoom.

MISSING WORDS ROUND: 1-a) Golf balls;

2-c) Steepest; 3-c) Junk food, 4-b) Wettest;

5-c) Vitamin D supplements.

FAMOUS FACES: 1-E; 2-F; 3-A; 4-C; 5-D; 6-B.

SPORTS & ENTERTAINMENT: 1-b) The London Marathon; 2-c) Yoda; 3-a) The 1966 Fifa World Cup final between England and Germany;

4-a) His step-daughter Megan; 5-a) The Witches.

ANIMAL JUMBLE!: 1-PANGOLIN; 2-LLAMA; 3-FLY; 4-OWL; 5-GERMAN SHEPHERD.

FIND THE HIDDEN ANIMALS

(page 44-45)

1-B; 2-C; 3-D; 4-F; 5-E; 6-A.

BRAIN BOOSTING! (page 46-47)

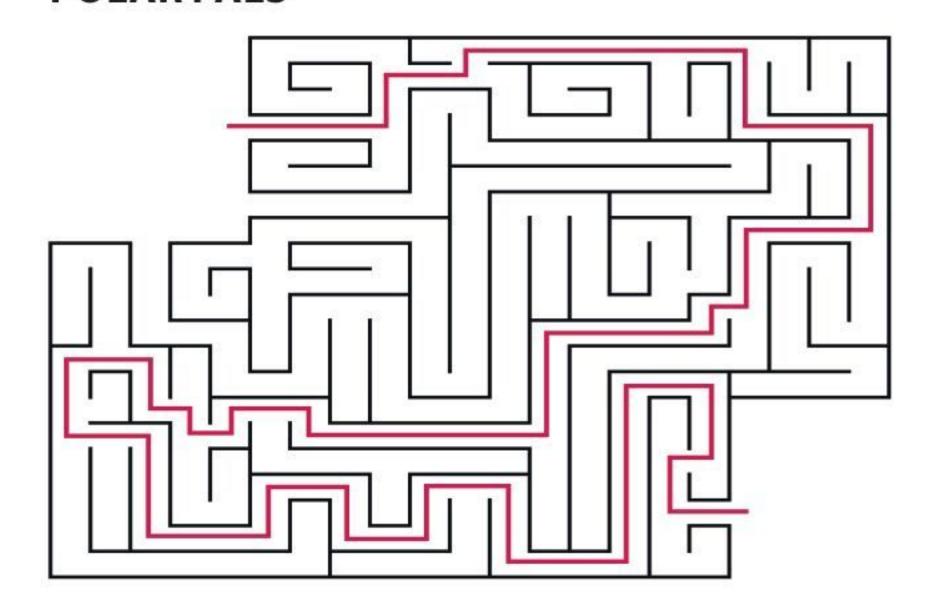
FRUITY FUN!

Number 3 is only shown once on the page.



BOOST YOUR BRAIN (page 46-47)

POLAR PALS



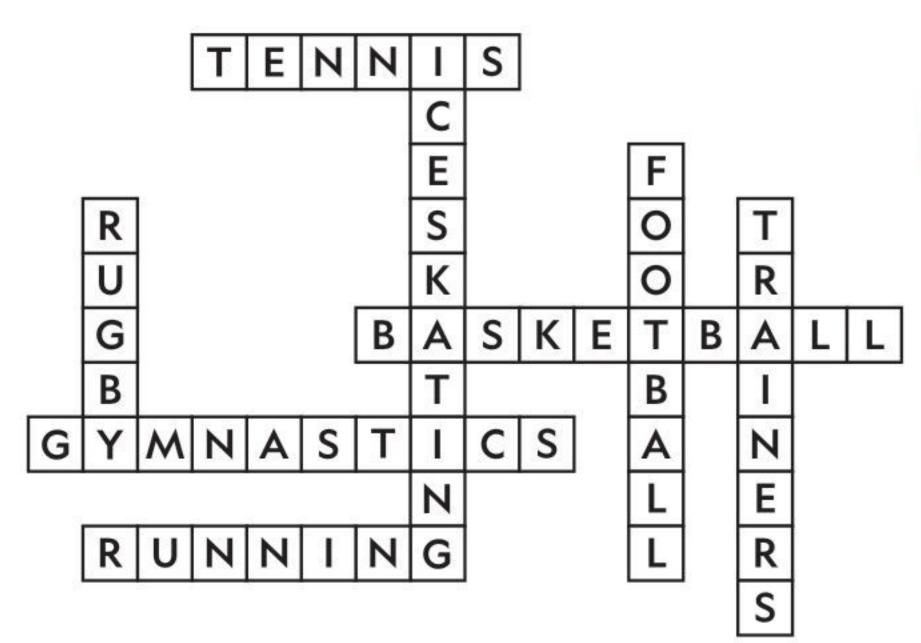
MATHS MATCH-UP:

A-28, B-5; C-30; D-67; E-44; F-32; G-25; H-54.

SUDOKU STARS

* * *	* * *
* * *	* * *
* * *	* * *
* * *	\star
1	2

GAME GRID



COUNT 'EM UP!:

Lolly x3; Cupcake x2; Lightning x4; Wand x3; Cherry x6; Carrot x5; Present x3; Heart x7; Diamond x4.

RESOLUTION REVEAL:

1-TURN OFF LIGHTS; 2-HELP OTHERS; 3-SAVE WATER; 4-BE KIND; 5-RECYCLE MORE; 6-WALK WHEN YOU CAN; 7-USE LESS PLASTIC; 8-GO GREEN.

PICTURE IT!

SPRING.

CRACK THE CODE

Cub, whelp or lionet.

THE LAST LAUGH

Q. Did you hear about the man who stole a calendar? A. He got 12 months!

Q. What did the drummer call his twin daughters? **A.** Anna 1, Anna 2!

> Q. What time do ducks wake up? A. At the quack of dawn!

Q. What's an Ig? A. A snow house without a loo!

> Q. What do snowmen call their kids? A. Chill-dren!

Q. What's a ghost's favourite month of the year? A. Janu-eerie!

> Q. Why did the pair of scissors win the race? A. It took a shortcut!

Q. Why are fish so clever? A. Because they live in schools!

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ABORIGINAL ...

CULTURE: ONE OF

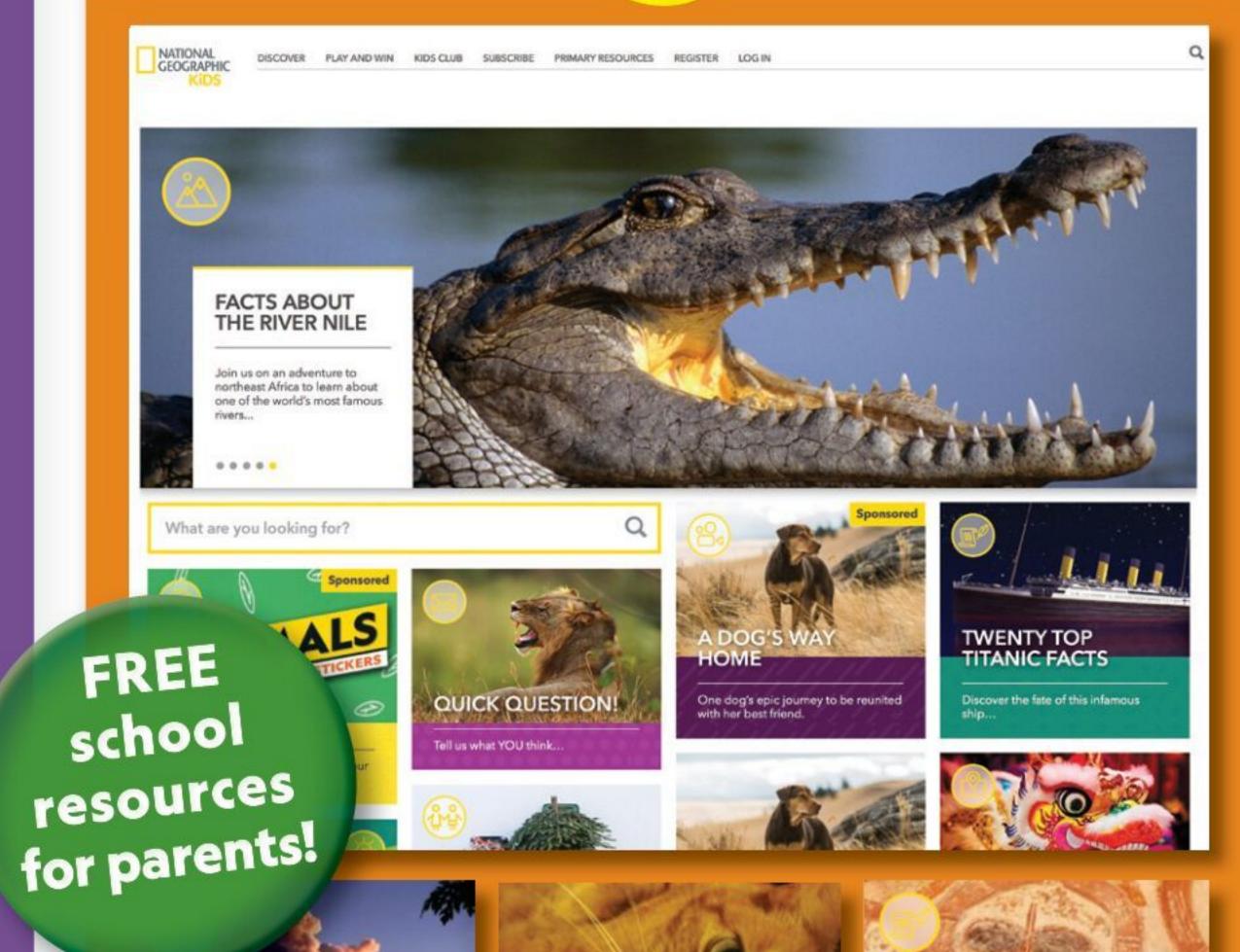
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