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NATIONAL
GEOGRAPHIC

COOL
BOOK
GIVEAWAY!



KIDS

SPECIAL
ISSUE!

weird
but
true!

زبانگده اوس

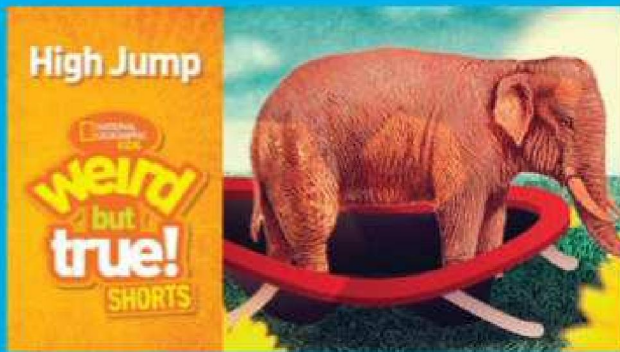
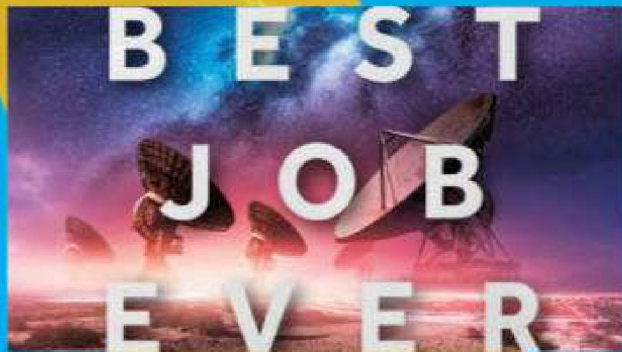
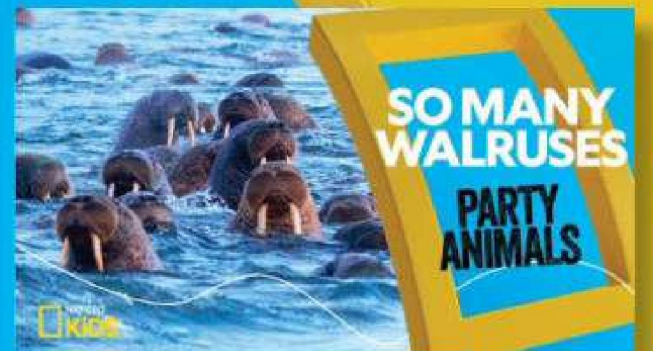
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SPECIAL ISSUE

16 pages of wacky, wild,
crazy-cool facts on pages 10-27



10

Totally Wild Facts About Animals

Pounce on these amazing facts about critters.



12

Weird Weather

These exciting weather conditions will blow you away.



16

Crazy Laws About Food

Get the scoop on some unbelievable rules.



22

Cool Facts About Cash

Discover a wealth of fun facts about money.



26

Icky Cures

Prepare to be grossed out by some seriously strange medicine.



DEPARTMENTS

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- 28 **Fun Stuff**

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COVER: WILLEECOLE / SHUTTERSTOCK (DOG); JAMES ELLERKER / GUINNESS WORLD RECORDS (CAT); STRIKA ENTERTAINMENT (COMIC); MILFORD ROAD ALLIANCE (PARROT); PAGE 3: ERIC ISSELEE / SHUTTERSTOCK (ANTEATER); JOHN LINDSAY-SMITH / SHUTTERSTOCK (GIRAFFE); KAREN ANDERSON PHOTOGRAPHY / GETTY IMAGES (WATER-SPOUT); AFRICA STUDIO / SHUTTERSTOCK (GUM); ELDAD CARIN / ISTOCK (LOOSE CHANGE); PEPMBASTOCK / SHUTTERSTOCK (BOTTLES)

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Check out these outrageous facts.

BY MARILYN TERRELL

Grab a parent to watch *Weird But True! Weirdest, Bestest, Truest* for even more crazy-fun facts.
youtube.com/notgeokids



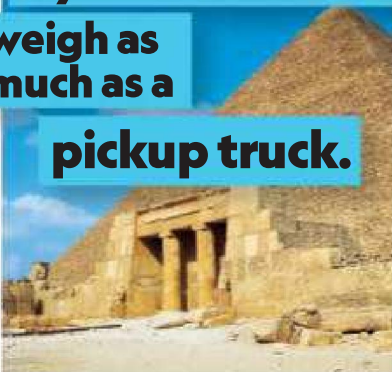
Young gorillas
play tag



like human kids do.

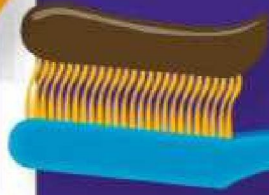
Each of the
2.3 million stones
in **Egypt's Great Pyramid at Giza**

weigh as
much as a
pickup truck.



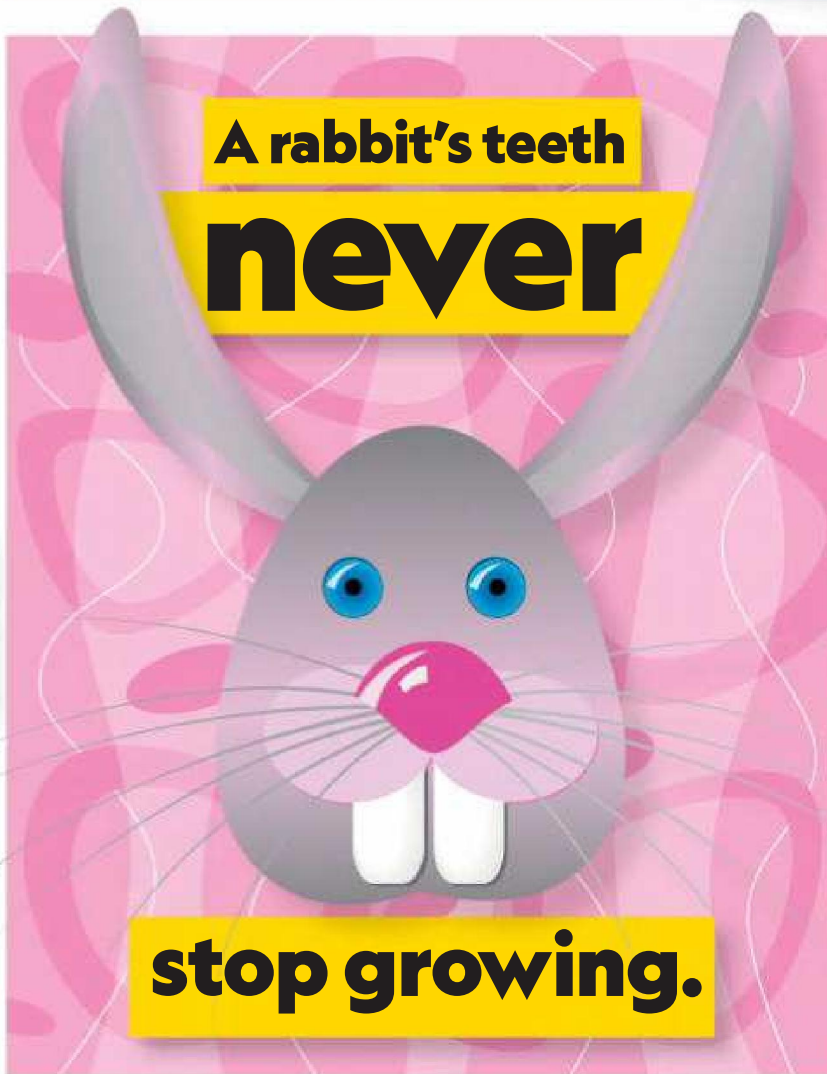
You can buy

chocolate-flavored toothpaste.

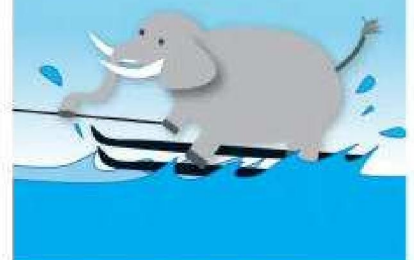


A rabbit's teeth
never

stop growing.



An elephant once
water-skied
on the Hudson River
in **New York City.**

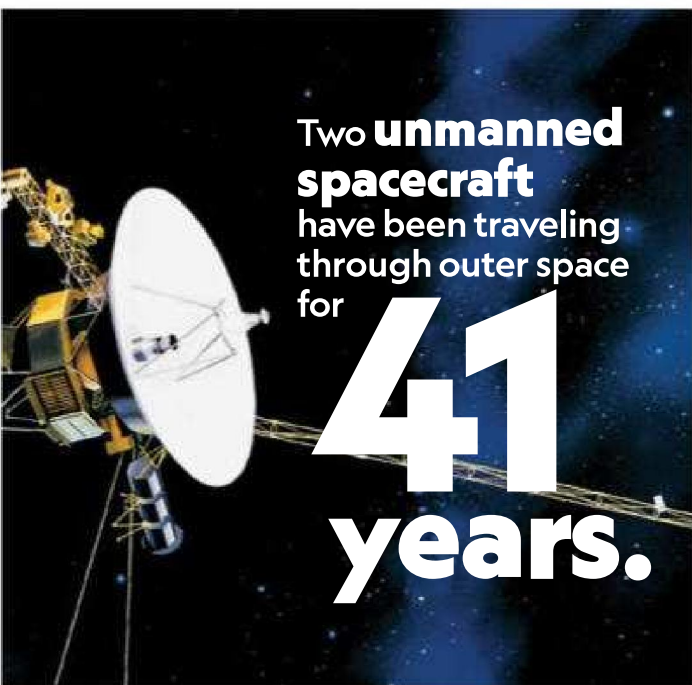


There's a **bicycle**
that folds up small
enough to
fit inside a backpack.



Two **unmanned spacecraft**
have been traveling
through outer space
for

41
years.



HAMMERHEAD SHARKS
can give birth to
40 babies
at once.



Lightning strikes
men
more often than
women.



GUINNESS WORLD RECORDS

CART TAKES OVER PARKING LOT

You'll never run out of room for groceries again. This vehicle holds the record for the world's largest motorized shopping cart. Taller than an African elephant, the cart can carry more than 360 grocery bags. Driver and creator Frederick Reifsteck maneuvers the cart using a car's steering wheel while perched in the "baby" seat. Just don't take this for a joyride down the store aisles—the cart can zoom legally on highways at up to 60 miles an hour.

—Molly Marcot



TEENY TINY CAT



6"



Lilieput may be the world's shortest cat, but she doesn't let her other feline friends get in her way—she just runs right under them! Lilieput, which is a breed of cat known as a munchkin, is less than six inches tall at her shoulders. That's barely taller than a soda can!

—Angela Modany



ANIMALS ON THE PROWL

Nope, these aren't escaped animals from the weirdest zoo ever. They're just contestants in the largest two-person costumed animal race. Each costume—everything from a camel to a cow to a donkey—was worn by two people, who raced almost 330 feet to the finish line.

—B.F. Summers

**Bet You
Didn't
Know!**

7 Thanksgiving facts you'll gobble up

BY ERIN WHITMER

1 Some
WILD TURKEYS
can run up to
**25 MILES AN
HOUR.**

2 Two turkeys—
named **Flyer** and
Fryer—moved to
DISNEYLAND
after they were
officially pardoned
by a **United States**
president.

3 A ripe
CRANBERRY
will
bounce.

4 The first
Thanksgiving
celebration
lasted for
THREE DAYS.

5 More
Native Americans
than pilgrims
attended the first
Thanksgiving
feast.

6 **CANADIANS**
celebrate
Thanksgiving
every
OCTOBER.

7 The
largest
PUMPKIN PIE
ever made
weighed **3,699**
pounds.



For more fun
facts, grab a
parent to watch
*Things You
Wanna Know!*
[youtube.com
/natgeokids](https://www.youtube.com/natgeokids)

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The Beat Goes On!

#TrollsTV

AMAZING ANIMALS

**BEWARE
OF BIRD!**

Naughty Parrots!

THIS TYPE OF
PARROT, CALLED
A KEA, LIVES
ONLY IN NEW
ZEALAND.

THE KEA CAUSED
TRAFFIC JAMS
AFTER PLAYING
WITH SAFETY
CONES.

Fiordland, New Zealand

Cruise down this twisty highway, and you'll spot mountains, lakes, and ... parrots playing on a jungle gym?

Bird experts created the playground just for local kea, a type of parrot that lives only in New Zealand. The feathered fliers can swing on an ocean buoy, make noise on metal triangles, and even knock each other off a see-saw. But it's not just for fun—the jungle gym keeps the birds out of trouble.

The mischievous birds had been moving safety cones across the road, forcing cars

to make dangerous turns and eventually holding up traffic. "Kea are naughty and really smart," says Sue Streatfield, a ranger with the New Zealand Department of Conservation. "You have to lure them away with something way more fun." Now instead of causing trouble, the kea can play on the structure.

Next, conservationists want to add a slide and toys to the structure, and scientists hope to use the roadside gym to study the birdbrains. So if you happen to be driving by, honk if you love kea!

—Aaron Sidder



SCIENTISTS HOPE
TO USE VIDEO
FOOTAGE OF THE
JUNGLE GYM TO
STUDY HOW KEA
THINK, COMMUN-
CATE, AND PLAY.

Doggy

High Dive

East Sussex, England

Poppy the English springer spaniel was just doing what she loved when she chased a seagull at a seaside park. But when the gull flapped away,

Poppy kept chasing it—right over a 300-foot cliff!

Her horrified dog walkers rushed to the edge and looked down. Poppy had fallen straight

into the English Channel. She was alive but helpless in the chilly waves.

As the humans called for help, the clever canine paddled to a tiny beach about 30 feet away. For 10 minutes she huddled there until a rescue boat from the Royal National Lifeboat Institution reached the soaked-but-safe dog.

Spaniels are great swimmers, says Ginnie Klein of the Golden Gate English Springer

I'M LIKE
SUPERDOG!



Spaniel Association. But surviving such an ordeal is "pure dumb luck," she says. Poppy might've wished she could fly as well as swim!

—Elisabeth Deffner

DOG

East Sussex,
England

PARROTS

Fiordland,
New Zealand



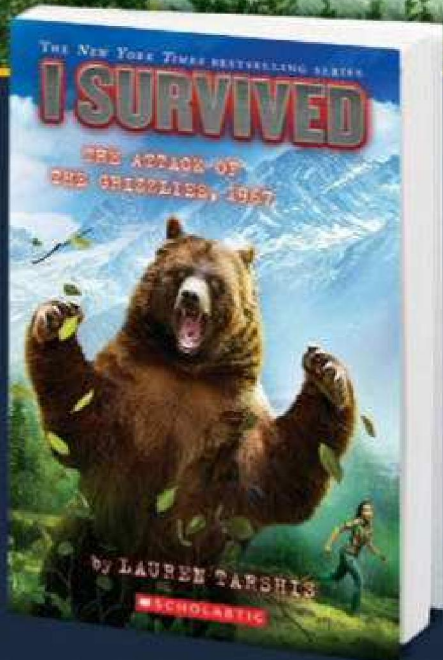
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NEW IN THE BESTSELLING SERIES BY LAUREN TARSHIS

I SURVIVED

THE ATTACK OF THE GRIZZLIES, 1967

The historic night that changed
Glacier National Park forever.



Collect Them All!



Explore the Grizzly attacks and learn more with author Lauren Tarshis at

scholastic.com/ISurvived

weird
but
true!

16 PAGES OF
WACKY, WILD,
CRAZY-COOL

**TOTALLY WILD
FACTS ABOUT**

ANIMALS



A
CROCODILE
GROWS up to
3,000 **TEETH** in its **LIFETIME.**



AN **ANTEATER'S**
TONGUE
IS **2 FEET LONG—**
that's
about
the

LENGTH
of a **TENNIS**
RACKET!

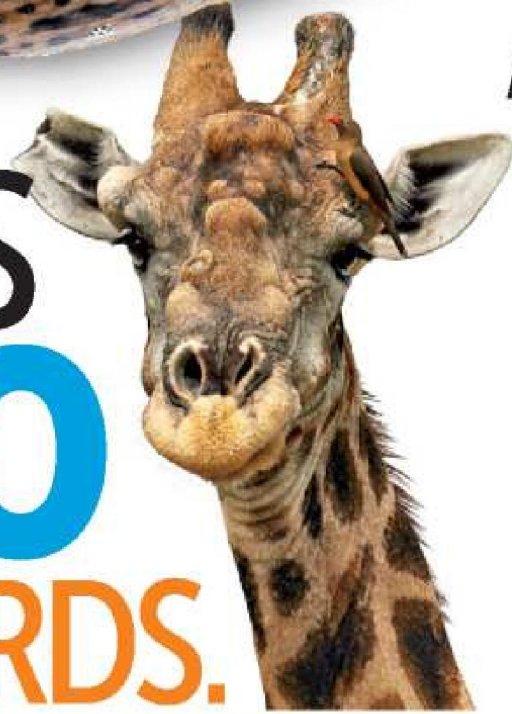


A
SQUID
HAS **3 HEARTS.**





GIRAFFES
HAVE **ZERO**
VOCAL CORDS.



A **SLUG** HAS
4 NOSES.

ABOUT
10 PERCENT
OF A **CAT'S**
BONES
ARE IN ITS
TAIL.



A HUMMINGBIRD'S **WINGS**
can beat
up to
200
TIMES
a second.



A POLAR
BEAR'S
PAW CAN BE
12 INCHES
ACROSS—



THAT'S AS **WIDE** AS A
FRISBEE!

THE WORLD'S
LEGGIEST CREATURE—
a TYPE of MILLIPEDE—HAS
750 LEGS!



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WEIRD

WEATHER

Red Sprite

Red sprites are still a bit mysterious to scientists. They happen in the upper atmosphere, miles above thunderstorms that are ending. After much of the electric charge is removed from a storm through lightning strikes, these glowing streamers may appear. Red sprites are rarely seen from Earth.



Haboob

A haboob is a giant desert dust storm. The thick blanket of dust can swallow up a city, knock over power lines, and cause traffic accidents because of reduced visibility. Cover your mouth and nose and run for cover if a haboob comes your way.



Double Rainbow

Light reflecting inside water droplets causes one rainbow, but it's actually possible for light to be reflected more than once inside a raindrop. The rare secondary rainbow is formed above the first and is usually fainter—and the colors are seen in the reverse order. Intense!

GET MORE WEIRD BUT TRUE! FACTS.
natgeokids.com/november

IER

TIRED OF SUN, CLOUDS, AND ALL THE USUAL STUFF WHEN YOU PEEK OUT YOUR WINDOW? CHECK OUT THESE EXCITING WEATHER CONDITIONS THAT WILL BLOW YOU AWAY!

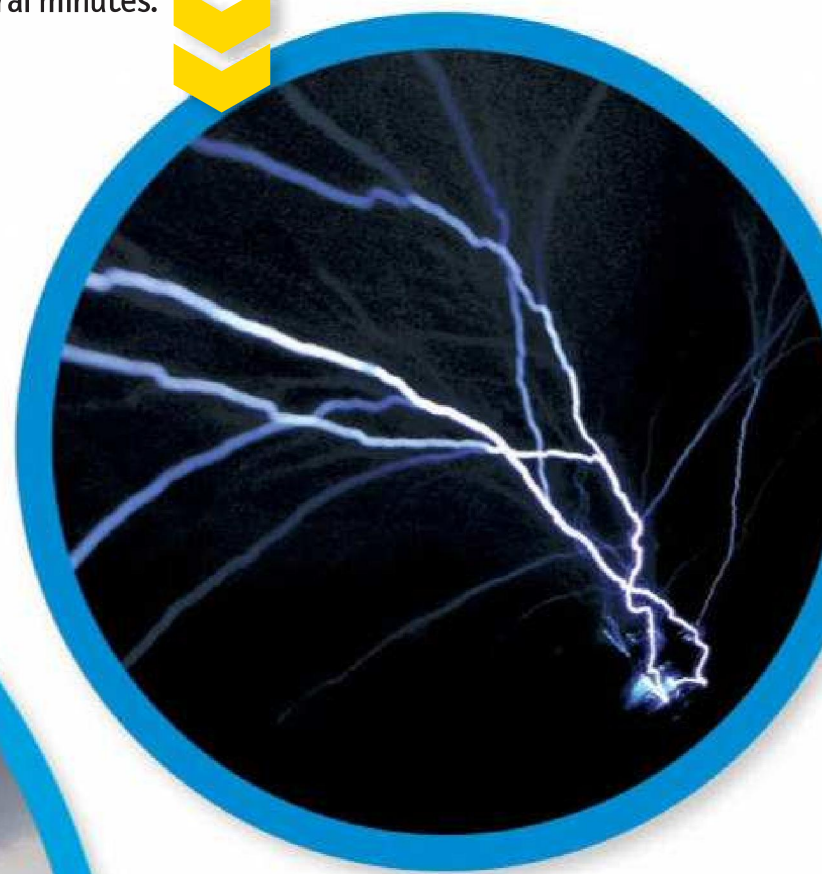


Sky Punch

Sometimes you'll see a stretch of clouds across the sky, and then a few minutes later there's a hole punched right through the clouds! This phenomenon is caused when supercooled clouds float in a blanket-like layer across the sky before an airplane flies through them. The broken cloud section then falls as snow.

St. Elmo's Fire

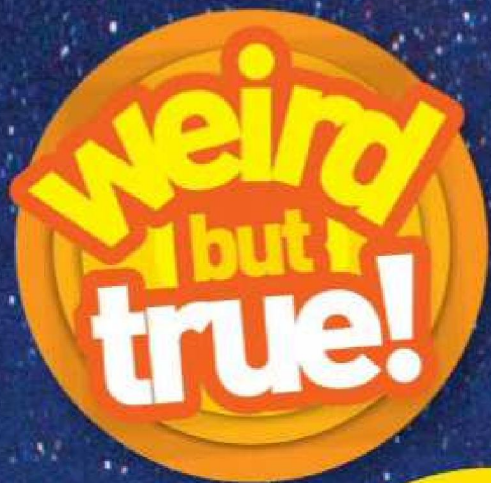
It's not actually fire at all—it's a gas called plasma. Metallic or pointy objects often become super-charged during thunderstorms. When the charges are high enough, the air around the object also becomes charged, or ionized. The nitrogen and oxygen in the air cause the glow to be blue or violet, and the St. Elmo's light can continue for several minutes.



Waterspout

These water funnels form in two ways: when a tornado moves over water, or when wind is light but cumulus clouds have begun to develop. (Cumulus clouds are the white, fluffy-looking clouds.) The second kind starts swirling at the surface of the water and moves upward. They'll fall apart quickly if they reach land.





Ancient artists moved
more than 1,000

GIANT

STONE STATUES across Easter Island



The largest statue
weighed 82 tons—
more than a couple of fully loaded cement trucks.

STONE-COLD MYSTERY SOLVED?

These statues, called *moai*, were built at least 800 years ago by the Rapa Nui people on Easter Island, in the South Pacific Ocean. Once carved, the stones had to be moved as far as 11 miles from their quarry into place. The prehistoric people who built them had no metal tools or wheels. Their method was a mystery until 2012, when researchers built a replica of one of the figures to crack the case.

The scientists showed that just 18 people with three strong ropes could've moved the statues. Pulling one statue at a time, they could've "walked" the statues on their large, rounded bases. Since the islanders didn't write down their technique, scientists can't be sure this is the method. But it's the most likely answer. Maybe the old legend—which says the statues walked into place—was the truth all along!

With no machines to help them.

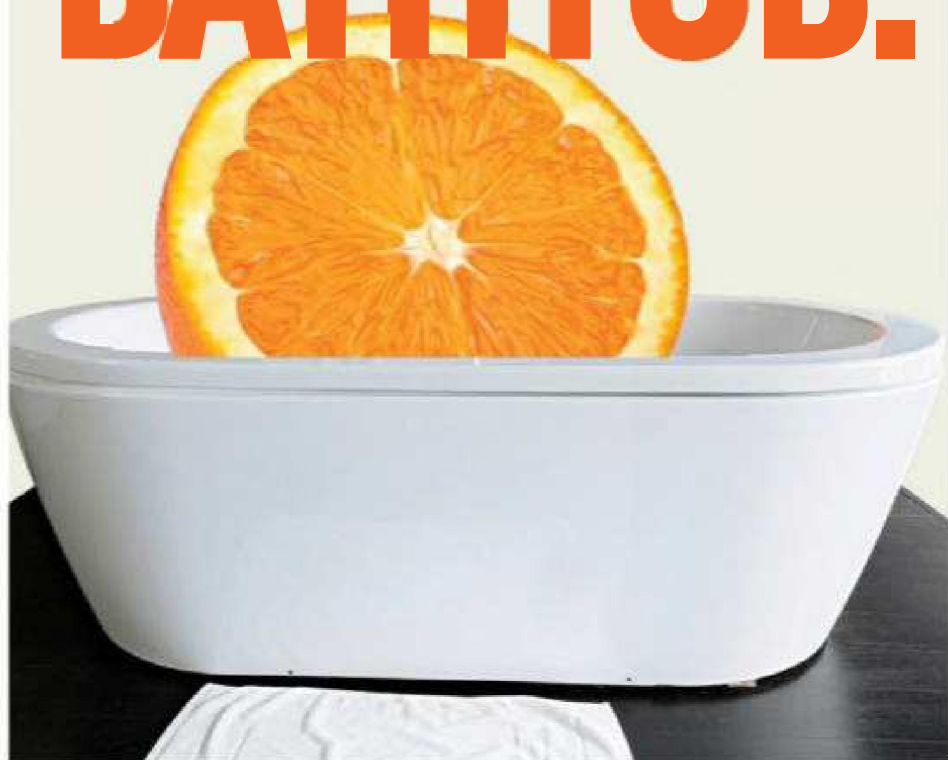


Grab a parent and watch the new **Weird But True!** video series, *Fast Facts*.
youtube.com/natgeokids



CRAZY

IN **CALIFORNIA**,
IT'S ILLEGAL TO EAT AN
ORANGE
IN THE
BATHTUB.



A **LAW** limits
MOURNERS
at **FUNERALS** in
MASSACHUSETTS
to just **3 SANDWICHES**
EACH.

EATING **FRIED CHICKEN**
with anything other
than your fingers is
OUTLAWED
in Gainesville, Georgia.



IN **SINGAPORE**,
chewing gum
IS ONLY AVAILABLE WITH A **PRESCRIPTION.**



LAWS ABOUT FOOD

IN **MEMPHIS, TENNESSEE**, A LAW
MAKES IT **ILLEGAL** TO TAKE HOME
LEFTOVER PIE



FROM A
RESTAURANT.

IT'S AGAINST THE LAW IN
KENTUCKY TO CARRY AN
ICE-CREAM CONE
IN YOUR **POCKET.**

In **WISCONSIN**, it's
ILLEGAL to serve

MARGARINE

in
SCHOOLS and
HOSPITALS.



IN
FRANCE, **KETCHUP**
IS **BANNED** IN
ELEMENTARY
SCHOOLS.



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CONTEST!**

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about your town or state?

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CITY



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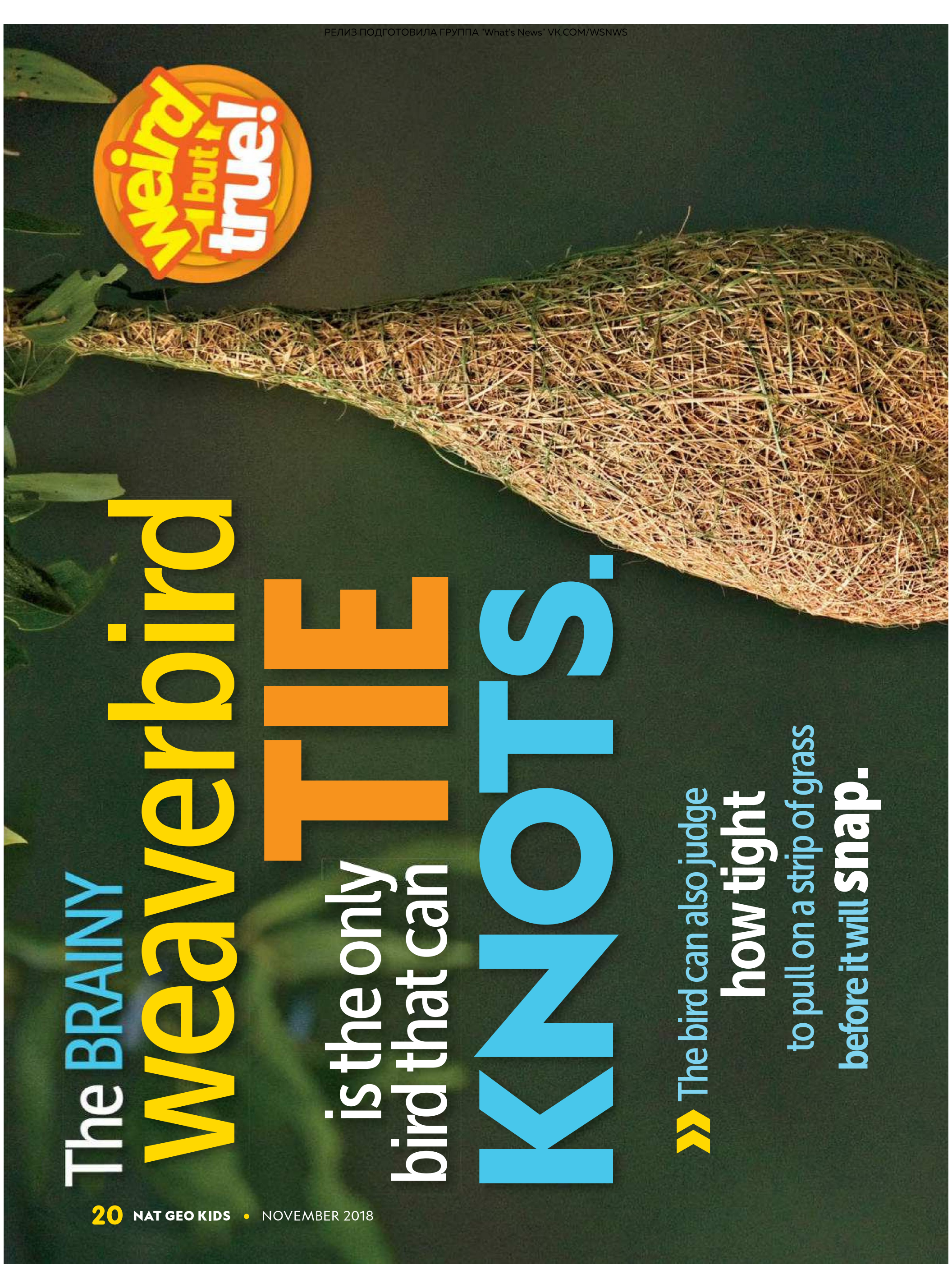
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The BRAINY Weaverbird is the only bird that can **TIE** **KNOTS.**

» The bird can also judge
how tight
to pull on a strip of grass
before it will **snap.**



» Male birds often build several nests, and the female picks her favorite.

» Weavers are quick learners, making a better nest every time.

» Weavers build nests that weigh over 2,000 pounds and house over 100 mini-nests inside.

» Weavers build their nests using dozens of different knots—and loops—even while hanging upside down!



CHECK
OUT
THIS
BOOK!



COOL FAB

THE **DOLLAR SYMBOL**
APPEARED ON **U.S.**
CURRENCY FOR THE
FIRST
TIME IN 2007—ON A
DOLLAR COIN.



AUSTRALIA
was the first country
to use plastic bills.

ONE-THIRD
OF ALL U.S. CURRENCY WAS
COUNTERFEIT
BY THE END OF THE
CIVIL WAR.

ONLY
8% OF THE
WORLD'S
CURRENCY
EXISTS AS **CASH.**
THE REST IS
ELECTRONIC.

THE **U.S. Treasury**
ESTIMATES THAT
AMERICANS
HAVE A TOTAL OF ABOUT
\$15 BILLION
in loose change.



CTS OUT CASH



CUSTOMS POLICE
TRAIN
DOGS
to SNIFF OUT
COUNTERFEIT
CASH
AT **BORDER**
CROSSINGS.



A MAN IN
CALIFORNIA

HAS

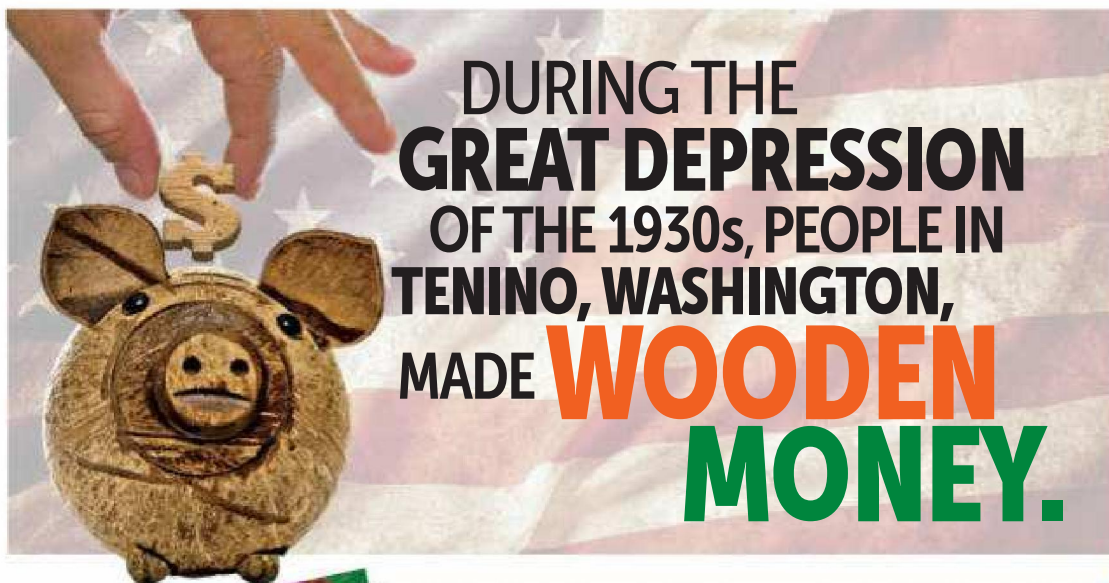
1,497

**ACTIVE
CREDIT
CARDS.**

HE'S KNOWN AS

Mr. Plastic Fantastic.

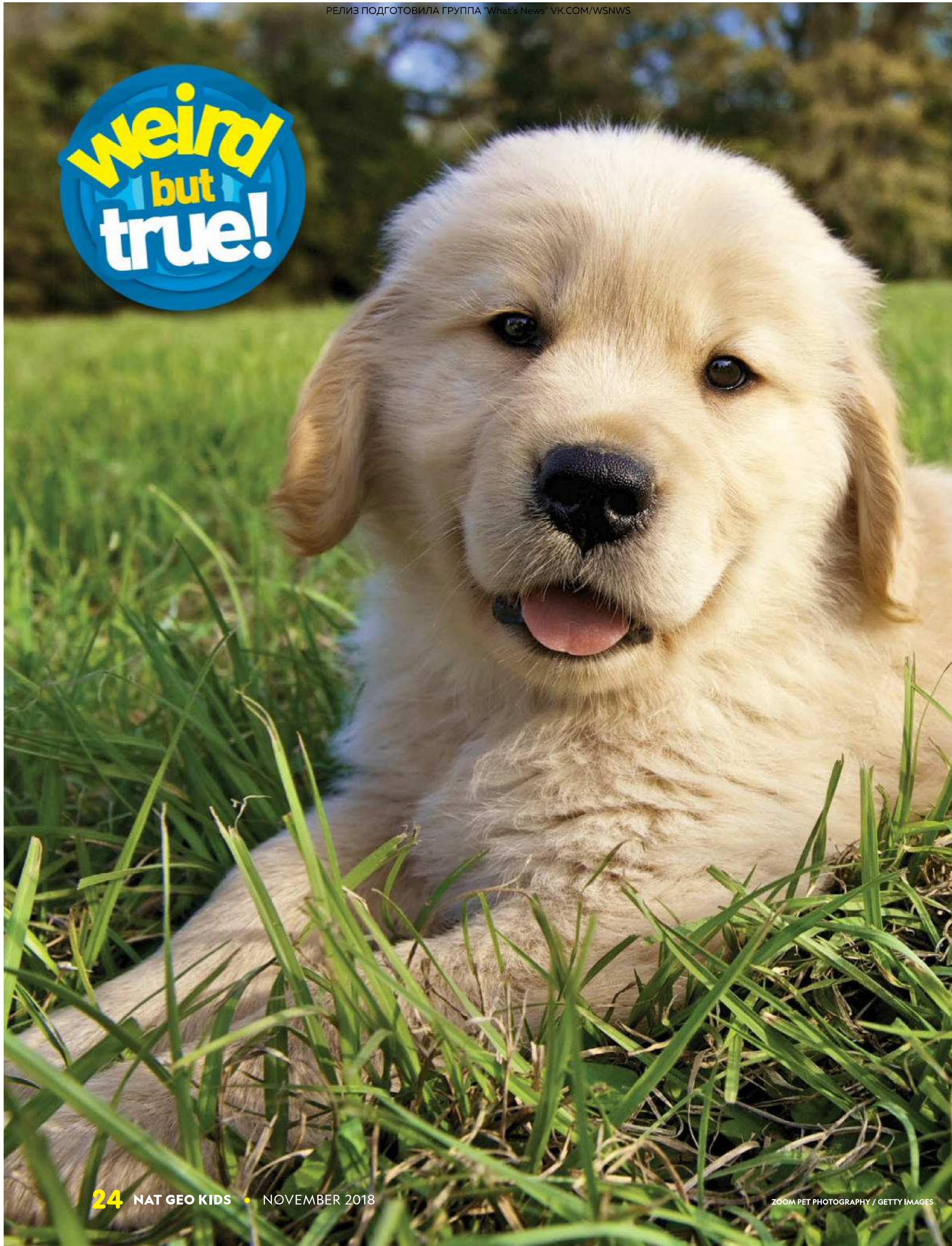
IT'S **ILLEGAL** **\$5**
FOR TRAVELERS TO TAKE MORE THAN
IN **PENNIES** OUT OF THE **UNITED STATES.**



DURING THE
GREAT DEPRESSION
OF THE 1930s, PEOPLE IN
TENINO, WASHINGTON,
MADE **WOODEN
MONEY.**



Grab a parent and watch *Weird But True!*
Shorts for more amazing facts.
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Looking at a

CUTE baby

animal activates the same
part of your brain as

falling in

LOVE ♥



SAY "AWW!"

Scientists have found that humans are drawn to animals that have facial features similar to a human baby's. When we see creatures with large eyes, chubby cheeks, or big foreheads, our brain sends a chemical called dopamine through our body. This dopamine makes us experience the sensation of reward. It's the same chemical released when we eat a super-sugary treat, hit a home run, or fall in love.

Looking at baby animals might even boost your brainpower—sort of. For an experiment, a team of psychologists had students play one round of a game that took a lot of concentration. Then they had half the students look at pictures of puppies and kittens. On the second round, this group did better than another group who *didn't* look at the adorable critters. So looking at photos of cute baby animal isn't just fun—it might help you think!



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ICKY CURES

ANCIENT EGYPTIANS GROUND

DEAD MICE

INTO A
PASTE FOR
TREATING

TOOTHACHES.

IN THE

1600s

SICK PEOPLE

IN BATH, ENGLAND,
DRANK HEALTH-GIVING
WATER THAT SMELLED
LIKE

ROTTEN
EGGS.

IN THE
MIDDLE
AGES,
PEOPLE PASSED

GAS

INTO

JARS

AND TOOK

SNIFFS

TO WARD OFF

PLAGUE.

VICTORIAN

DOCTORS

ADVISED

MEN

TO GROW

BEARDS

TO PREVENT ILLNESS.

17TH-CENTURY
HOME REMEDIES FOR BURNS
INCLUDED **GOOSE DUNG**
FRIED IN BUTTER.

IN THE FUTURE,
GROUND-UP
COCKROACH
BRAINS
COULD BE USED
TO TREAT **INFECTION.**

A TRADITIONAL **CHINESE** RECIPE FOR SOOTHING
SORE JOINTS
INCLUDES **SNAKE OIL.**

RED, SLIMY **HIPPO**
SWEAT CAN BE
USED AS
SUNSCREEN.

CHECK
OUT
THE
BOOK!MY FAVORITE
SMELL?
STINKY FEET!

FUN STUFF

GAMES,
LAUGHS, AND
LOTS TO DO!

DOG SCIENCE

BY JODI
WHEELER-TOPPEN

FIND YOUR DOG'S FAVORITE SMELL

Take your science experiments out of the lab and into your backyard! We bet you know your dog's fave toy, but do you know what smell it likes best? Use this experiment to discover your pup's preference.

YOU NEED:

- hammer and nail
- 4 plastic containers with lids
- 4 unusual odors (some ideas: mint mouthwash, soy sauce, a strong spice, or even a toy that a friend's dog has used)

INSTRUCTIONS

1

Ask an adult to help you use the hammer and nail to punch 10 holes in the lid of each container.

2

Place some of each scent into its own separate container and snap on the lid. Shake the container, then wipe off any spills on the lid.

3

With your dog out of the room, place the containers in a row with a few inches between them.

4

Let your dog into the room. Record how long your pup spends with each container. Your dog will spend the most time with the scent that's most interesting to it.



SAFETY NOTE

Don't leave your dog alone during the experiment—your pet might get so interested in a smell that it eats the container, which could make your pooch sick.



MATTHEW RAKOLA (ALL)

EXPLORER ACADEMY

In the new book *Explorer Academy: The Nebula Secret*, 12-year-old Cruz Coronado breaks secret codes in order to fight dangerous villains and solve mysteries. Test your own skills by cracking the code on this page, then check out more about the book at ExplorerAcademy.com.

TEXT AND PUZZLE BY GARETH MOORE

THE CODE: POLYBIUS SQUARE

This cipher puts the alphabet on a square-shaped grid and turns each letter into a number. Check out the Polybius square on the right. The row number to the left of the letter is the first digit, and the column number above the letter is the second digit.

So you write **D O G**
like this: **14 34 22**

This cipher is named after the ancient Greek historian Polybius (puh-LIH-bee-uhs), who is thought to be the first person to use this system.

The table has only 25 spaces, so the letters *i* and *j* share a square. When you're decoding a message with the number 24, use your judgment to decide if the letter should be an *i* or a *j* based on the rest of the word.

	1	2	3	4	5
1	A	B	C	D	E
2	F	G	H	I/J	K
3	L	M	N	O	P
4	Q	R	S	T	U
5	V	W	X	Y	Z

CRACK THIS CODE! ➤

Using the Polybius square, decode the message below.

ANSWER ON PAGE 33

12

15

13

11

42

15

21

45

31

52

23

34

54

34

45

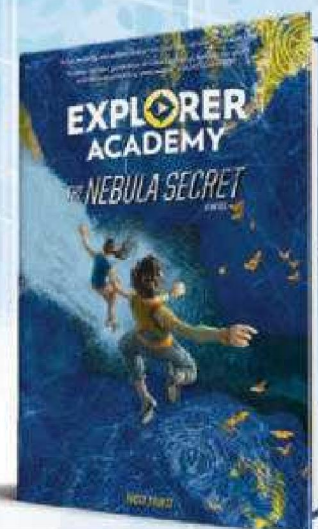
44

42

45

43

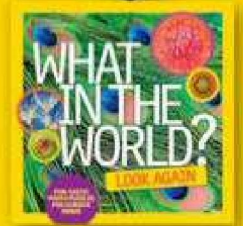
44



CHECK
OUT
THE
BOOK!

BREAK MORE CODES!
ExplorerAcademy.com

WHAT IN THE WORLD

CHECK OUT
THE BOOK!

SEEING SPOTS

These photographs show close-up views of things with spots or dots. Unscramble the letters to identify each picture. Feel like you're on the spot? **ANSWERS ON PAGE 33**



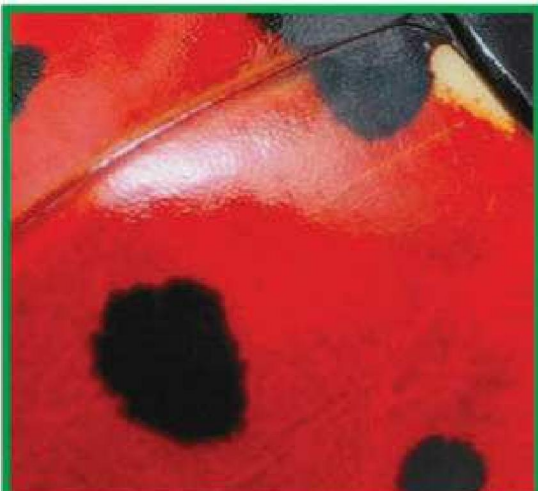
SWRTITE



HERAFTE



COGEK



YAGBDLU



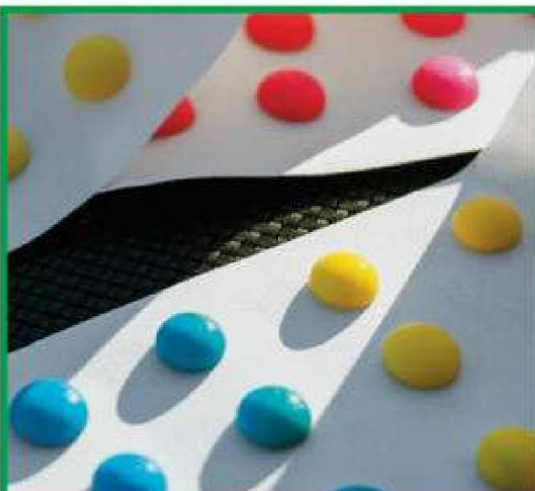
TANAMLADI



MDOOINSE



SHFI



AYDNC TSBTONU



UHRMOMOS

TOP ROW (LEFT TO RIGHT): REBECCA HALE / NG STAFF; LCSWART / SHUTTERSTOCK; NATALIA FEDOSOVA / SHUTTERSTOCK.
MIDDLE ROW (LEFT TO RIGHT): IRIN-K / SHUTTERSTOCK; DORA ZETT / SHUTTERSTOCK; NITO / SHUTTERSTOCK. BOTTOM
ROW (LEFT TO RIGHT): LEVENT KONUK / SHUTTERSTOCK; GRACIEPIZZO / SHUTTERSTOCK; W59 / SHUTTERSTOCK.

FUNNY FILL-IN

PARADE BRIGADE

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

BY MARGARET J. KRAUSS

PLAY MORE FUNNY FILL-IN!
natgeokids.com/ffi



It was the day of the _____ holiday _____ parade. My family and I got up at _____ small number _____ o'clock in order to get a good _____ noun _____ before the parade. Huge balloons that looked like things such as _____ animal, plural _____ and _____ cartoon character _____ were each held down by _____ large number _____ people, and _____ adjective _____ floats covered in _____ something slimy _____ jammed the street. When we saw an open door in a float shaped like a(n) _____ noun _____, we _____ adverb ending in -ly _____ past-tense verb _____ through it. But then the _____ same noun _____ began to move. We _____ past-tense verb _____ up a(n) _____ noun _____ to the top of the float. Suddenly we were surrounded by _____ pop star _____ and the _____ type of job, plural _____, _____ verb ending in -ing _____ and throwing _____ type of food, plural _____ at the crowd. What could we do? We started _____ verb ending in -ing _____ with the band!



ARTZONE

OCEAN CHAMPIONS

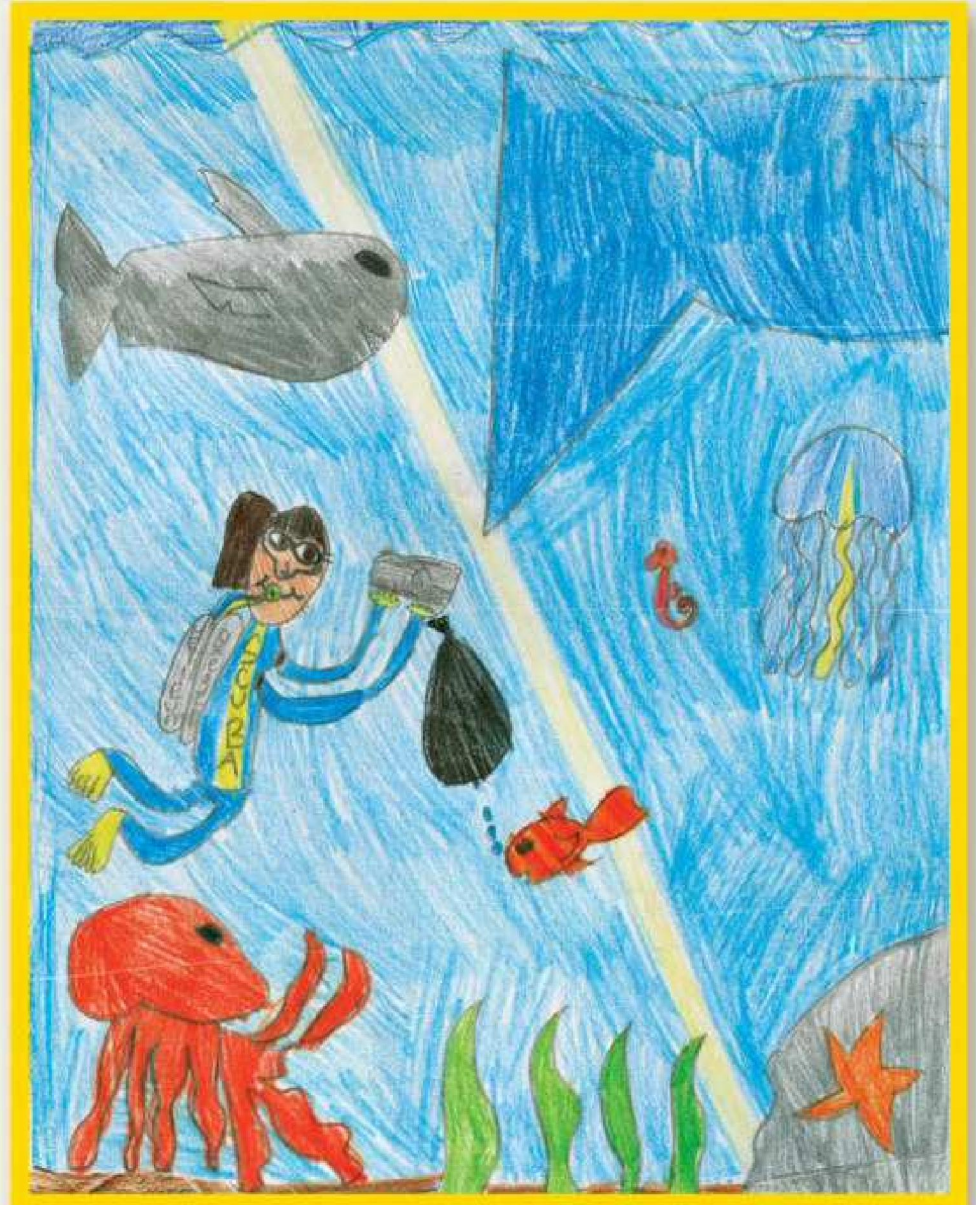
Check out all the ways *Nat Geo Kids* readers protect the ocean in these drawings.



▲ **Recycle!**
Max B., 10, Ocala, Florida



▲ **Pick Up Cups and Straws**
Jordan H., 8, Boonton, New Jersey



▲ **Picking Up Trash and Taking Photos of the Animals**
Presley L., 10, Charlotte, North Carolina



▲ **Save the Sea From Pollution**
Bennett S., 7, West Paducah, Kentucky



▲ **Pick Up Pet Waste!**
Evey G., 10, Puyallup, Washington

Draw your favorite ocean animal.

Send us
your
original
drawings:

**Nat Geo Kids—
Animal Art Zone**
P.O. Box 98002
Washington, DC
20090-8002

Include your name, address, phone number, date of birth, a title for your drawing, a statement that it is your own work, and the name of your parent or guardian. Your parent or guardian must sign a release for publication if your illustration is selected. Submissions become the property of National Geographic Partners, and all rights thereto are transferred to National Geographic Partners. Submissions cannot be acknowledged or returned. Selection will be at the discretion of *Nat Geo Kids*.

See these and 20 other sea-saving
pieces of art at **National Geographic
Encounter: Ocean Odyssey**
in New York City!

NATIONAL
GEOGRAPHIC

ENCOUNTER™

OCEAN ODYSSEY

For more information, grab a parent and go online.

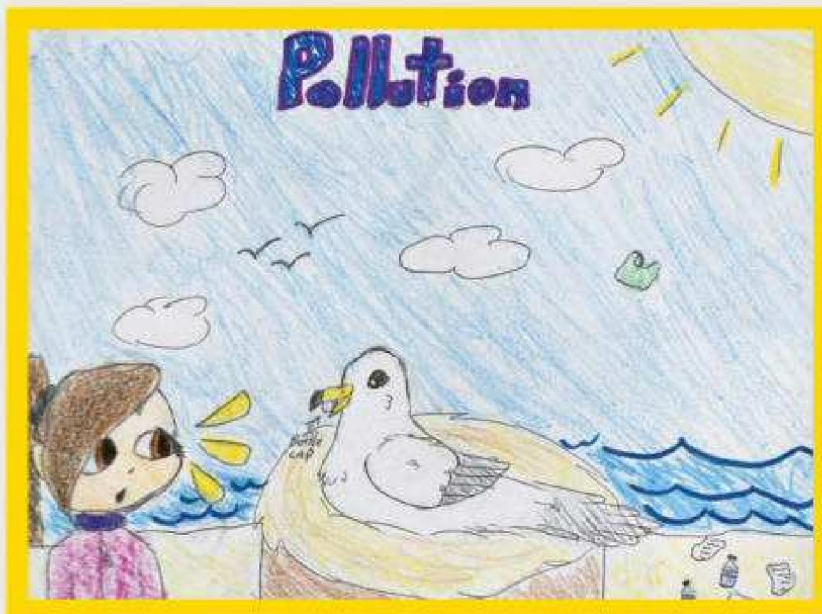
natgeoencounter.com

Pick Up Trash

Dylan L., 9,
Thornton,
Colorado

Clean Up Pollution

Maryanne G.,
11, Olathe,
Kansas



Fish Are Friends!

Mira U., 10, San Francisco, California



Beach Cleanup

Zinnia M., 9,
Warner, New
Hampshire



Every Bit of Trash Picked Up Helps

Malia A., 12,
Manassas,
Virginia



Answers

"What in the World?" (page 30):
Top row: Twister, feather, gecko. Middle row: ladybug, Dalmatian,
dominoes. Bottom row: fish, candy buttons, mushroom.

"Explorer Academy" (page 29): Be careful who you trust.

STRIKA ENTERTAINMENT

Unleashed

1



2



3



4



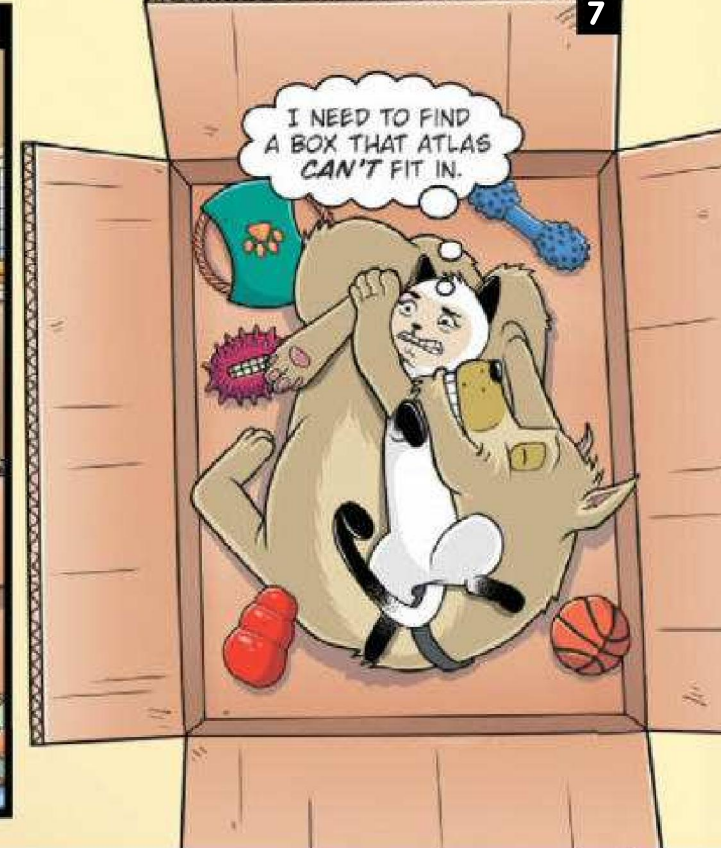
5



6



7



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www.avasshop.ir

