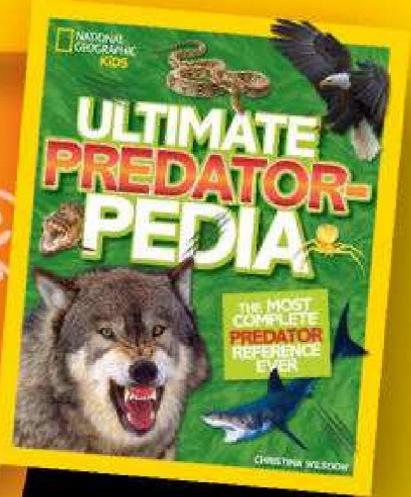


NATIONAL GEOGRAPHIC

**Weird
but
true!**



**FUN
BOOK
GIVEAWAY!**

KIDS

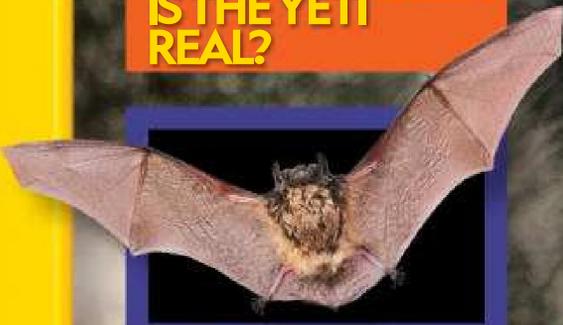
**SPECIAL
HALLOWEEN
ISSUE**



**DOGS IN
COSTUME**



**IS THE YETI
REAL?**



**FIERCE
PREDATORS**

زبانکده اوس

www.avasshop.ir

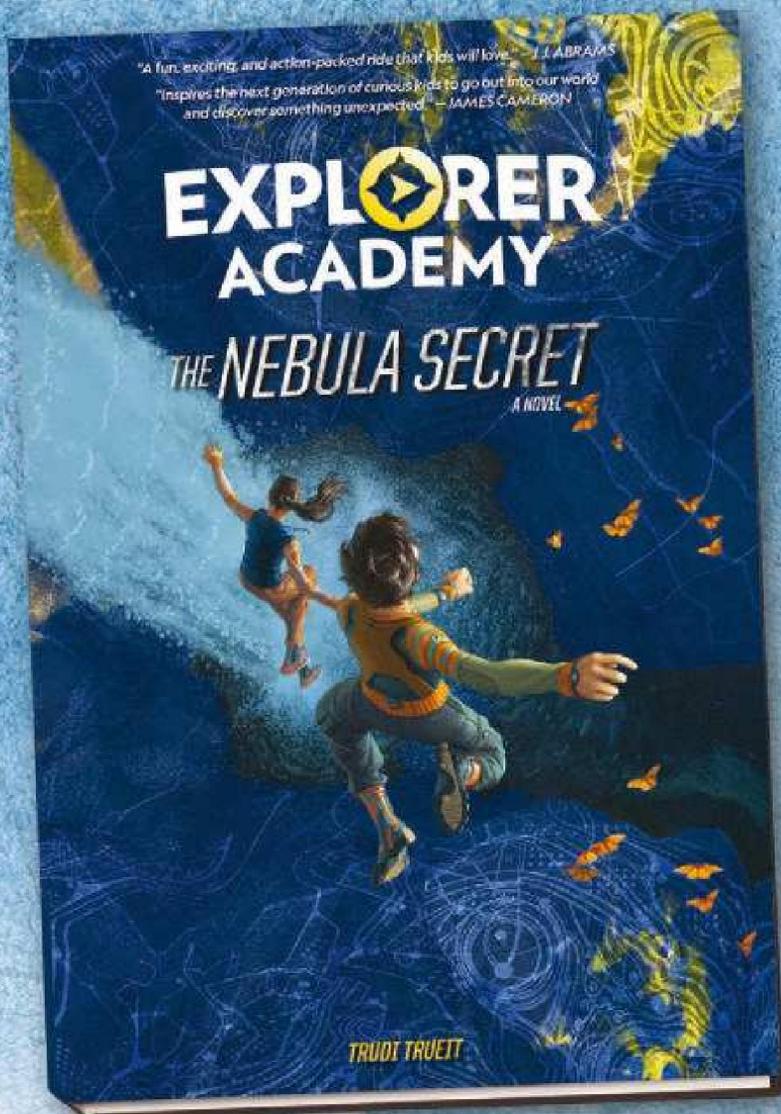
**10
COOL
CATS,**

**CREEPY QUIZ,
AND MORE!**

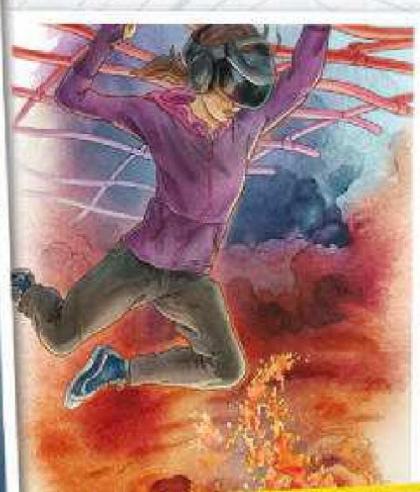
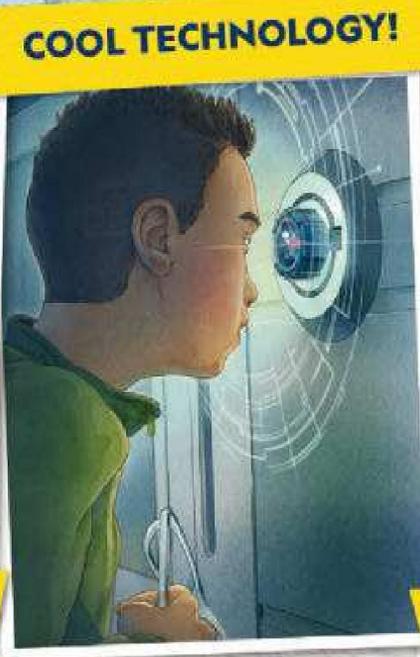
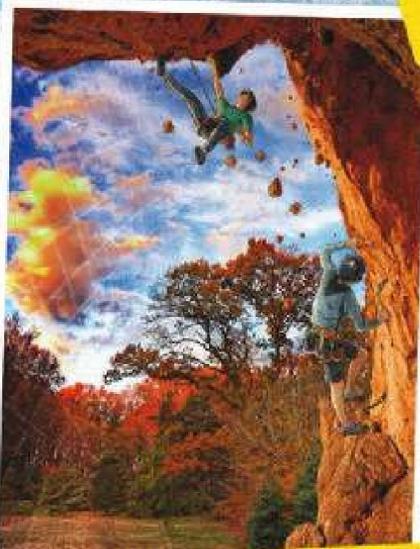
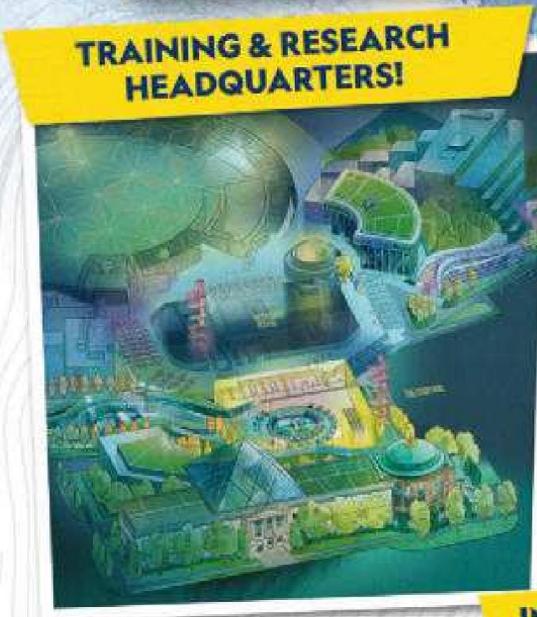
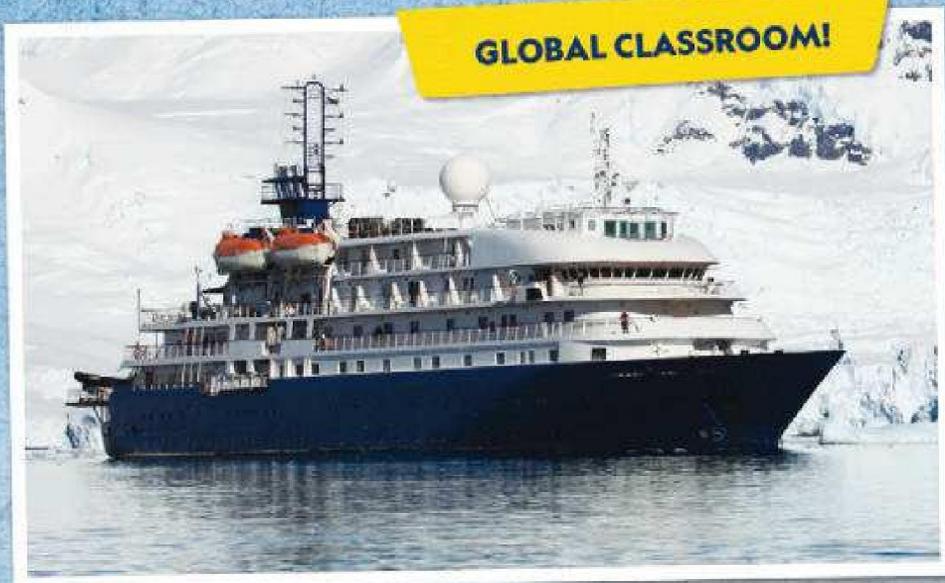


WELCOME TO EXPLORER ACADEMY

The COOLEST SCHOOL on the Planet!



ADVENTURE, DANGER, AND A THRILLING GLOBAL MISSION await 12-year-old Cruz Coronado at the Explorer Academy, where he and 23 other kids from around the globe will train to become the next generation of great explorers. But Cruz must also unlock clues to his family's mysterious past and tackle the biggest question of all: Who is out to get him ... and why?



UNDER THE Stars



AVAILABLE WHEREVER BOOKS ARE SOLD SEPTEMBER 4
Pre-order now! Get a sneak peek at exploreraacademy.com



NATIONAL GEOGRAPHIC KIDS

**Editor in Chief and Vice President,
Kids Magazines & Digital**
Rachel Buchholz

Vice President, Visual Identity
Eva Absher-Schantz

Design Director, Magazines Eileen O'Tousa-Crowson

Editorial Kay Boatner, *Senior Editor / Digital Producer*;
Allyson Shaw, *Associate Editor / Digital Producer*

Photo Shannon Hibberd, *Senior Photo Editor*;
Kelley Miller, *Contributing Photo Editor*

Production Sean Philpotts, *Director*

Digital Laura Goertzel, *Director*;
Tirzah Weiskotten, *Video Manager*

Administration Michelle Tyler, *Editorial Assistant*

PUBLISHED BY NATIONAL GEOGRAPHIC PARTNERS, LLC

Chief Executive Officer
Gary E. Knell

Chairman of the Board of Directors
Peter Rice

**Executive Vice President and General Manager,
Nat Geo WILD & Nat Geo Kids Media**
Geoff Daniels

Senior Vice President, Kids Media, Content
Jennifer Emmett

Advertising Offices Kim Connaghan, *Vice President, Publisher*
(212) 822-7431; **Detroit** Karen Sarris (248) 368-6304;
West Coast Eric Josten (424) 292-5715

International Magazine Publishing Yulia Petrossian Boyle,
Senior Vice President; Jennifer Jones, *Business Manager*;
Rossana Stella, *Editorial Manager*

Finance Jeannette Swain, *Senior Budget Manager*;
Tammi Colleary-Loach, *Senior Manager, Rights Clearance*;
Pinar Taskin, *Contracts Manager*

Consumer Marketing John MacKethan,
Vice President and General Manager;
Mark Viola, *Circulation Planning Director*;
Richard J. Brown, *Acquisition Director*

Market Services Tracy Hamilton Stone, *Research Manager*

Advertising Production Kristin Semeniuk, *Director*;
Julie A. Ibinson, *Manager*

Publicity Caitlin Holbrook, *Publicist* (202) 912-6714

Parents, contact us online: kids@natgeo.com

NATIONAL GEOGRAPHIC KIDS (ISSN 1542-3042) is published ten times a year by National Geographic Partners, LLC, Washington, DC 20036. For more information contact natgeo.com/info.

Periodical postage paid at Washington, DC, and additional mailing offices. POSTMASTER: Send address changes to NATIONAL GEOGRAPHIC KIDS, P.O. Box 37545, Boone, IA 50037. Subscriptions: United States, \$25.00; Canada, \$29.95; elsewhere, \$34.95; all in U.S. funds. Single copy: United States, \$4.99; Canada, \$6.99 in Canadian funds or \$5.75 in U.S. funds; elsewhere, \$5.99 in U.S. funds or equivalent (includes postage). In Canada, Agreement number 1000010298, return undeliverable Canadian addresses to NATIONAL GEOGRAPHIC KIDS, P.O. Box 819 STN Main, Markham, Ontario L3P 9Z9.

The submission of photographs and other material to NATIONAL GEOGRAPHIC KIDS is done at the risk of the sender; NATIONAL GEOGRAPHIC KIDS cannot accept liability for loss or damage.

**SUBSCRIBE TO NATIONAL GEOGRAPHIC KIDS!
CALL TOLL FREE 1-800-647-5463**

MON.-FRI., 8 A.M.-9 P.M. EST, SAT., 9 A.M.-7 P.M. EST

For a subscription to NATIONAL GEOGRAPHIC KIDS, send written requests—including name, address, zip code, and payment in U.S. funds or equivalent—to

NATIONAL GEOGRAPHIC KIDS, P.O. BOX 37545 BOONE, IA 50037

For gift subscriptions, send giver's name and address as well as recipient's.

Copyright © 2018 National Geographic Partners, LLC. All rights reserved. Reproduction of the whole or any part of the contents of NATIONAL GEOGRAPHIC KIDS without written permission is prohibited. NATIONAL GEOGRAPHIC KIDS and Yellow Border: Registered Trademarks © Marcas Registradas. Printed in the U.S.A. ISSUE 484

PRINTED ON 100% PEFC-CERTIFIED PAPER—PEFC/29-31-58—
Please recycle. 

IN THIS ISSUE

12 10 Cool Cats

These true stories of amazing felines will leave you purring.



8

Halloween Pet Parade

Watch four-legged trick-or-treaters show off their crazy costumes.



20

History's Mysteries

Find out what clues have been uncovered in five unsolved puzzles from the past.



24

Don't Take This Quiz Before Bed

Discover how good you'd be at defeating the dark forces of the paranormal.



26

30 Cool Things About Predators

Take a bite out of these awesome animal facts.



DEPARTMENTS

- 4 Weird But True!
- 5 Guinness World Records
- 6 By the Numbers
- 28 Fun Stuff

COVER: KONOPLYTSKA / ISTOCK / GETTY IMAGES (CAT); EGD / SHUTTERSTOCK (DOG); © CHRISTIAN DARKIN / SCIENCE SOURCE (YETI); IGOR CHERNOMORCHENKO / SHUTTERSTOCK (BAT); JAMES YAMASAKI (BAT ILLUSTRATIONS, THROUGHOUT); PAGE 3: TOBKATRINA / SHUTTERSTOCK (CAT); BETTINAFILMS VIDEOGRAPHY (BULLDOG); © CHRISTIAN DARKIN / SCIENCE SOURCE (YETI); RUDALL30 / SHUTTERSTOCK (WEREWOLF); IGOR CHERNOMORCHENKO / SHUTTERSTOCK (BAT)

A NOTE TO PARENTS

National Geographic Kids occasionally makes its member and subscriber lists available to reputable organizations that market their products and services through the mail. If you do not want your name and address used in this manner, you can remove it by returning this coupon.

Do not make my name and address available to other organizations.

Please note that *Nat Geo Kids* will not disclose your child's name for marketing or promotional purposes.

Please include a current magazine label with this coupon, and mail your request to:

**National Geographic Kids
Customer Service
P.O. Box 37545
Boone, IA 50037**

Parents: Follow us on Twitter @NGKids and like us on Facebook. For corrections and clarifications, go online. natgeo.com/corrections



Weird but true!

Check out these outrageous facts.

BY MARILYN TERRELL



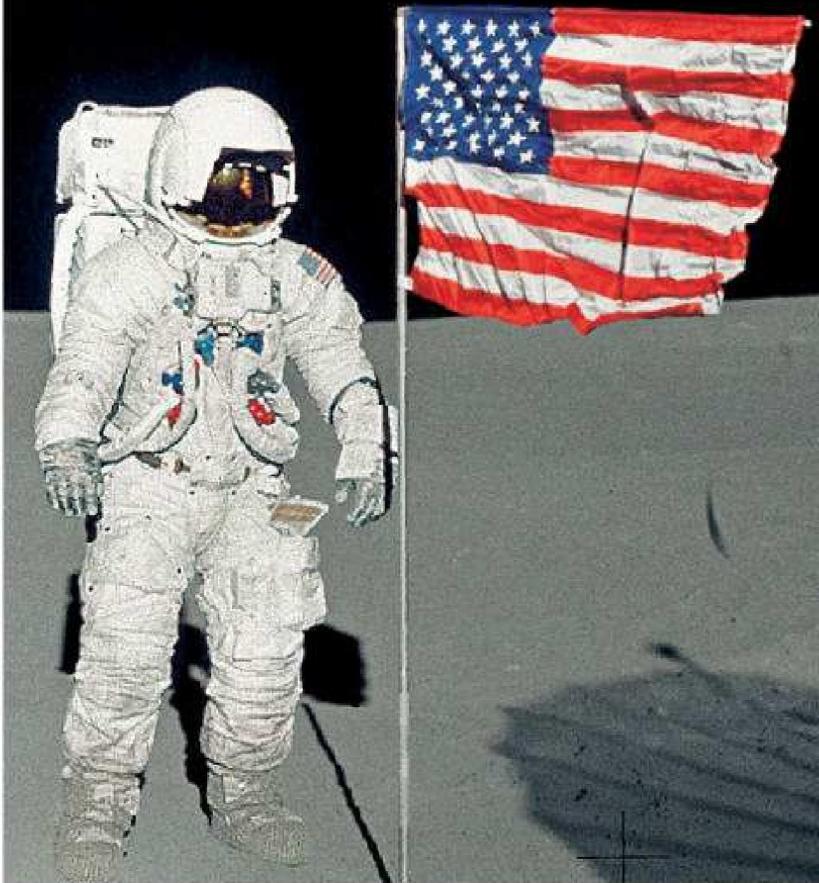
CHECK OUT THE BOOK AND APP!

IT WOULD TAKE YOU MORE THAN 1,000 YEARS TO WATCH ALL OF THE VIDEOS ON YOUTUBE.



Young koalas sometimes smell like cough drops.

Only 12 people have walked on the MOON.

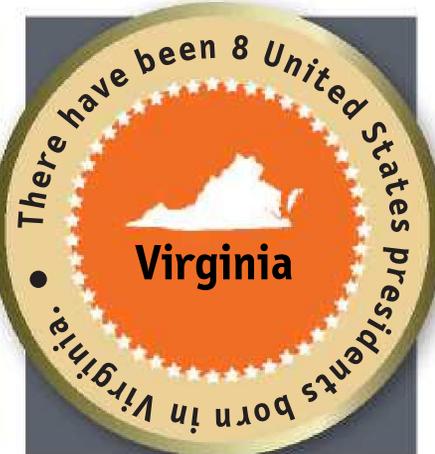


If you lined up all the eyelashes

a person loses in a lifetime, the hairs would stretch the length of

10 crocodiles.

A man in Indiana parachuted out of an airplane **640** times in **24** hours.

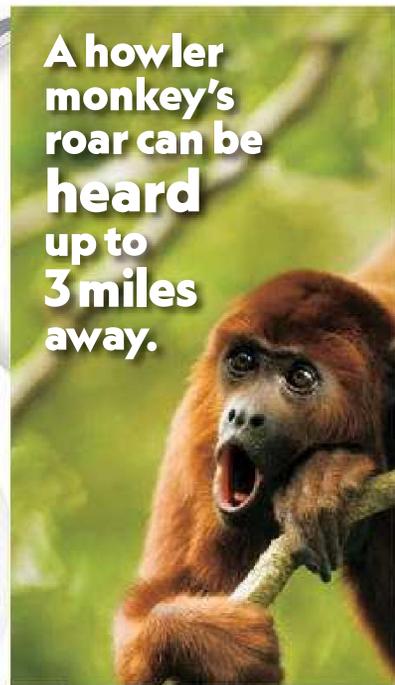


Certain species of **birds** can sing with **regional "accents."**



A meatball weighed **109 pounds**—that's enough beef to make **436 hamburgers.**

A howler monkey's roar can be heard up to **3 miles** away.



JULIDE DENGEL / NG STAFF (YOUTUBE ART, COUGH DROPS); HAN NA JUNG / NG STAFF (PARACHUTE, MEATBALL, SEAL); NASA (ASTRONAUT); MENNO SCHAEFER / SHUTTERSTOCK (BIRD); © AMAZON-IMAGES / ALAMY (HOWLER MONKEY)

GUINNESS WORLD RECORDS

BY ELIZABETH HILFRANK



GET MORE
COOL STUFF
IN THE
NEW BOOK
**GUINNESS
WORLD
RECORDS
2019!**



REALLY LONG LASHES

You'll definitely raise your eyebrows over this record. You Jianxia holds the record for the longest eyelash. While some of her lashes are a normal length, many of them extend nearly to her chin. The longest one measures 4.88 inches, about 10 times the length of the average human lash. Now *that's* an eye-popping record.



KILLER FUNGUS

It's no wonder this mushroom is nicknamed the "death cap." *Amanita phalloides* is the most poisonous fungus on Earth. Found all over the planet, these mushrooms have enough toxin in one cap to kill a human. It's best to keep this fungus as far away from your dinner plate as possible!

SUPER-TALL CAT

You would've had to hide the catnip really high up to keep it from the tallest domestic cat ever. Arcturus stood about 19 inches tall from his paw to his shoulder, taller than an average-size bowling pin. Arcturus was a savannah, a breed with markings similar to a cheetah's that is known for its height. This feline really measured up.



The savannah is recognized by the International Cat Association. But because the first ones were a cross between wild African servals and domestic cats, some people don't believe they should be pets. Always do research to make sure any pet is right for you.

BY **the** NUMBERS

CRAZY FOR CANDY CORN

These yellow, orange, and white striped kernels are a Halloween favorite. Grab a handful and compare how people eat this century-old candy.

How do **you** eat your **CANDY CORN?**

11%

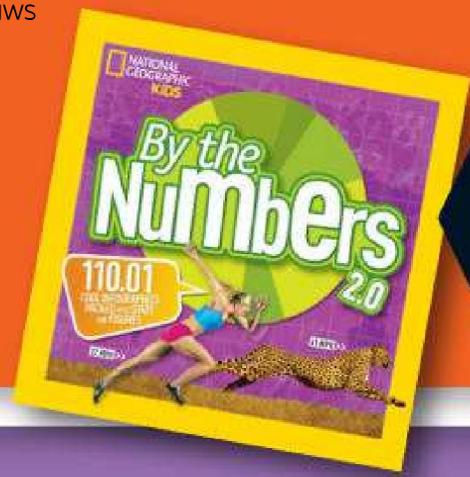
START AT THE WIDE END.

47%

*This chart adds up to more than 100 percent because the numbers are estimates.



BY JULIE BEER AND MICHELLE HARRIS



CHECK OUT THE BOOK!

Invented in:
1880s

Number of kernels made each year:

9 BILLION

Calories per piece:

7

EAT THE WHOLE KERNEL AT ONCE.

43%

START AT THE NARROW END.

AMAZING ANIMALS



TOO BAD NONE OF THESE BONES ARE CHEW TOYS.

GIBSON THE MIXED BREED SPORTS A SKELETON COSTUME.

HALLOWEEN PET PARADE

Forget sweets—these trick-or-treaters want belly scratches! Millions of pets will don a disguise for Halloween, and *Nat Geo Kids* found a few of the craziest getups.

BY ANDREA SILEN

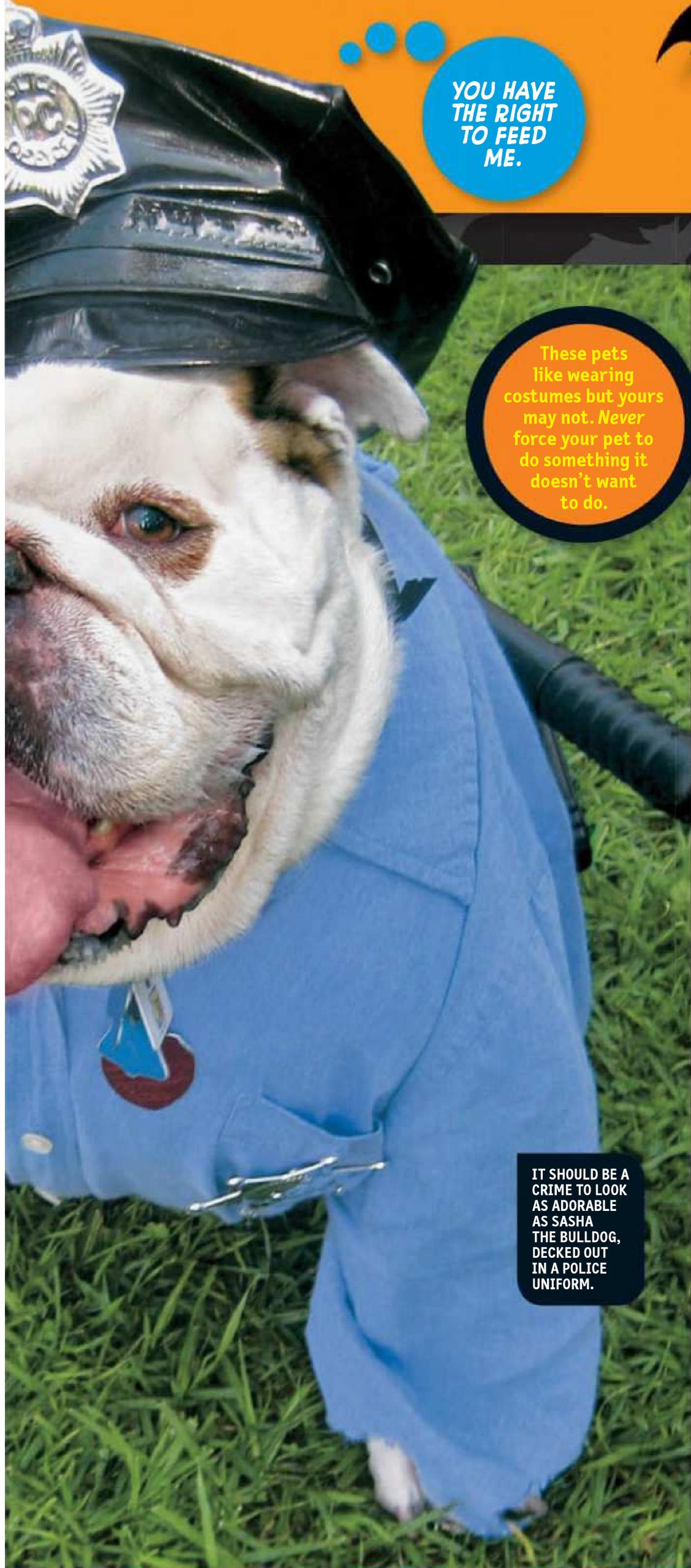


VILLAINS FLEE WHEN THEY SEE MY SLOBBERING POWERS.

IT'S A BIRD!
IT'S A PLANE!
IT'S COOPER THE COLLIE MIX DRESSED AS SUPERMAN!



About 16 percent of Americans plan to dress up their pet this Halloween.



YOU HAVE THE RIGHT TO FEED ME.

These pets like wearing costumes but yours may not. *Never* force your pet to do something it doesn't want to do.

IT SHOULD BE A CRIME TO LOOK AS ADORABLE AS SASHA THE BULLDOG, DECKED OUT IN A POLICE UNIFORM.



WINKY THE BLIND CAT MAKES A SPLASH IN HER SHARK SUIT.



I'M TOTALLY "JAW"-SOME!

BEST-DRESSED PETS

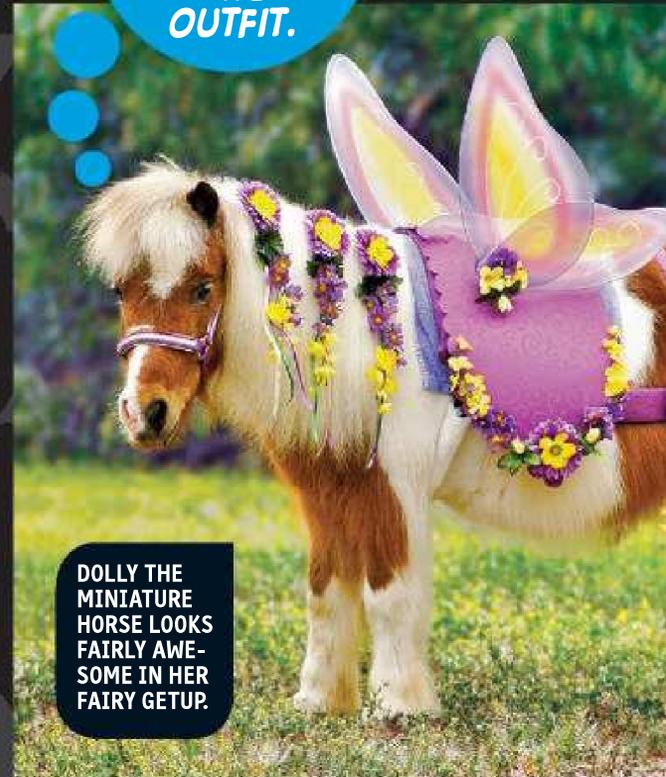
- Which pet costumes did party animals wear last year? Take a look at some of the most popular.
1. pumpkin
 2. hot dog
 3. lion
 4. pirate
 5. dog
 6. bumblebee
 7. devil
 8. superhero
 9. ghost
 10. witch

LEARN HOW TO TAKE GREAT PICS OF YOUR PET!
natgeokids.com/october

AMAZING ANIMALS

HEY, I THOUGHT FAIRY DUST CAME WITH THIS OUTFIT.

WHERE'S MY KARAOKE MACHINE? I'VE GOT SOME ELVIS TUNES TO PERFORM.



DOLLY THE MINIATURE HORSE LOOKS FAIRLY AWESOME IN HER FAIRY GETUP.



JUST CALL ME CLEO-CAT-RA.

PEANUTTER THE CAT RULES IN HER REGAL PHARAOH ATTIRE.

SEE MORE PETS IN COSTUME!
natgeokids.com/october

JELLYBEAN THE SHIH TZU ROCKS AN ELVIS DISGUISE.

THE TOP KIDS' COSTUMES OF 2017 INCLUDED SUPERHERO, WITCH, ANIMAL, PRINCESS, AND GHOST.



THE NEXT FULL MOON TO FALL ON HALLOWEEN WILL BE IN 2020.

THE FIRST HALLOWEEN GREETING CARDS IN THE UNITED STATES WERE LIKELY PRODUCED AROUND 1908.

ACCORDING TO LEGEND, A BAT FLYING INTO YOUR HOUSE ON OCTOBER 31 MEANS THAT YOUR HOME IS HAUNTED.



SOME PUMPKINS CAN GROW NEARLY AS BIG AS A VOLKSWAGEN BEETLE.



I KNOW,
I'M "SEW"
ADORABLE.

PROTECT YOUR PET

It may be Halloween, but you don't want your pet to get spooked. Follow these tips to keep your animals happy and safe this year.

- Some pets will make like a ghost and disappear through open front doors. Watch your animal carefully when you welcome trick-or-treaters so it doesn't dash outside.

- Your furry family member should wear an ID tag with your address. That way if the pet *does* get loose, someone will bring it home.

- Doorbells may stress your pet. Consider putting a sign on your front door asking trick-or-treaters to knock instead.

- Place nervous animals in a closed room so they don't get upset by all the Halloween commotion. Fill the room with your pet's favorite toys to keep it happy.

- Chocolate and other types of candy can be hazardous to animals, so keep the sweet stuff out of reach. If your pet does snag some candy, call the vet immediately.

- Carved pumpkins pump up the fun factor on Halloween, but keep jack-o'-lanterns away from pets. Animals that chomp on pumpkins or get too close to lit candles might get hurt.



LAST YEAR,
THE AVERAGE
AMERICAN FAMILY
SPENT ABOUT \$86
FOR THE HOLIDAY.



FRANK
THE MIXED
BREED KEEPS
EVERYONE
IN STITCHES
WITH HIS
PINCUSHION
GEAR.

If you dress
up your pet, check
that the outfit is
comfortable and allows
the animal to breathe
and walk safely.

PLEASE
PAY YOUR
CAB FARE
IN DOG
BISCUITS.



ALL HAIL
MOMO THE
MINIATURE
POODLE,
WEARING A
SWEET TAXI
OUTFIT.

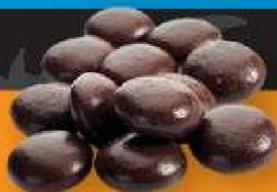


ABOUT 68 PERCENT
OF AMERICANS CHOOSE
CHOCOLATE AS THEIR
FAVORITE HALLOWEEN TREAT.

PEOPLE IN
IRELAND
TRADITIONALLY EAT
POTATOES MASHED
WITH CABBAGE
FOR DINNER ON
HALLOWEEN.

DO YOU SORT YOUR
GOODIES INTO
CHOCOLATE, GUMMY,
AND HARD CANDY
CATEGORIES? YOU'RE
NOT ALONE. ONE-THIRD
OF TRICK-OR-TREATERS
DO THE SAME.

ACCORDING TO ONE POLL,
ABOUT 45 PERCENT OF
AMERICANS BELIEVE
IN GHOSTS, AND
ABOUT 18 PERCENT
THINK THEY'VE ACTUALLY
SPOTTED A SPIRIT.



10 COOL CATS

True stories of
amazing felines

BY ALLYSON SHAW AND RUTH A. MUSGRAVE

A

black cat crossed your path? It might be your lucky day! Cat lovers know that any kitty can bring good things like comfort and companionship. That's why humans have lived with feline friends for thousands of years, and why cats are still popular pets today. Meet 10 kitties that prove cats are awesome animals all year long!

1 SURFER CAT

THE CAT Nānākuli
THE SPOT Honolulu, Hawaii
WHY HE'S COOL Nānākuli the one-eyed cat knows exactly how to ride the waves: He lies down on his owner's surfboard with his paws hanging ten. His owners think that taking baths as a kitten helped the cat, nicknamed Kuli, get used to the water. Eventually they gave Kuli a tiny life jacket and let him float on a surfboard while gently splashing seawater on his paws. Now Kuli wears a leash as he surfs with his owners behind him on the board—as long as the water isn't too rough. *Cat-abunga, dude!*

KULI GETS READY TO CATCH SOME WAVES WITH OWNER ALEXANDRA GOMEZ-YOUNG.

2

TOP OF THE CLASS

WHAT A TEACHER'S PET! TOMBI "HELPS" WITH CLASS WORK.



THE CAT Tombi
THE SPOT İzmir, Turkey
WHY HE'S COOL One morning when the school bell rang, 33 students and one stray cat filed into Özlem Pinar Ivaşçu's third-grade classroom. "The kids started playing with him immediately," Ivaşçu says. The kitty didn't want to leave—and the students didn't want him to go. So the cat, named Tombi, was given vaccinations and a medical checkup to make sure he would be safe to have in the school. Now officially the class cat, Tombi sleeps through classes on a bookshelf and then plays with the kids during breaks. This kitty is a real class act!

3 SPACED OUT

THE CAT Félicette

THE SPOT Space

WHY SHE'S COOL The fur really flew on October 18, 1963, when Félicette became the first cat in space. The French feline rocketed toward the stars to help researchers learn whether animals could survive the challenges of space travel. After soaring more than a hundred miles above Earth, the high-flying feline safely returned home the same day. We bet she was seeing stars.



4

FURRY FIRE ALARM

THE CAT Luna

THE SPOT Chester, South Carolina

WHY SHE'S COOL

Around 4 a.m., Emily Chappell-Root felt her cat Luna clawing, pawing, and nipping at her feet. Thinking the cat wanted to show off a rabbit she had brought into their home, Chappell-Root went into the hallway. But instead of a rabbit, she saw flames coming from the kitchen. Thanks to Luna, she had time to get all six of her children, plus the other pets, out of the house. "Black cats have a reputation of being unlucky," Chappell-Root says. "But adopting Luna has been one of the luckiest things that happened to our family."



LARRY GUARDS 10 DOWNING STREET, HOME TO THE UNITED KINGDOM'S PRIME MINISTER.

CAT IN CHARGE 5

THE CAT Larry

THE SPOT London, England

WHY HE'S COOL Larry has his own doorman. And an official title. And a job to do. This 12-year-old rescue kitty is the Chief Mouser to the Cabinet Office, meaning he keeps the home of the prime minister of the United Kingdom totally mouse free. Once Larry almost lost his position after a former prime minister spotted a rodent in his office—and Larry didn't lift a paw. The cat's still employed though. Guess Larry is too cute to be voted out of office.



زبانگده اوس
www.avasshop.ir



GUIDE CAT
PWDITAT TAKES
CHARGE OF HIS
BLIND PAL,
TERFEL.

6 GUIDE CAT

THE CAT Pwditat

THE SPOT Holyhead, Wales

WHY HE'S COOL Terfel the Labrador mix was losing his eyesight. Nervous of hurting himself, the dog mostly kept to his basket. But then a stray cat wandered into the house—and walked right up to Terfel. As if he sensed Terfel was blind, the cat guided the dog into the garden. After that, the kitty became part of the family. Named Pwditat (pronounced PUT-ee-tat), the cat helped Terfel get around the house with a gentle nudge or reassuring rub against his legs. Who says cats and dogs can't be BFFs?



7

WHAT'S YOUR NAME?

THE CAT Nadjem

THE SPOT Egypt

WHY IT'S COOL Ancient Egyptians adored cats. They liked them so much they mummified them. They just didn't seem to name them. Tomb inscriptions often noted dogs' names, but cats were simply referred to as *miu*, meaning "he who meows." One cat owner broke tradition by naming his cat Nadjem, which means "pleasant one." Nadjem's name was found in its owner's tomb, making it the first known cat to have a name.

CREEPY CATS?

You have cutouts of witches, ghosts, monsters, and ... black cats. Wait, how did cute kitties get so scary?

Historians think the fear of cats might have started during the Middle Ages, around A.D. 500 to 1500, when night was a scary time. (You couldn't just flick on your kitchen light when you wanted a snack!) So because cats are active at night, people thought cats were super creepy.

Also during that time, older women were sometimes accused of witchcraft; they sometimes had pet cats. Some people believed that the cats were witches' companions—or even witches in disguise. The felines' association with nighttime and witches made them a symbol of Halloween, the spookiest holiday of the year.

Grab a parent to watch [cat trick videos!](https://www.youtube.com/natgeokids)
[youtube.com/natgeokids](https://www.youtube.com/natgeokids)

8 CUDDLE THERAPY

THE CAT Ron

THE SPOT Denver, Colorado

WHY HE'S COOL Each morning Ron the cat greets all the patients at Northfield Veterinary Hospital, even climbing kennel walls to say hello. "Ron likes to be in everybody's business," co-owner Jen Weston says. So when a staff member's dog needed a procedure, Ron cuddled up next to the pup. Soon Ron was comforting other patients (as long as their owners gave the OK). What makes Ron such a caring kitty? "He's just really nosy," Weston says.



LEFT AND BELOW, RON SNUGGLES WITH SLEEPING DENTAL PATIENTS.

RON CHECKS IN ON HIS SISTER, WHO WAS HAVING SURGERY THAT DAY.



BIG CAT CONNECTION

Your house cat might not roar like a lion, but your kitty has more in common with big cats than you think. Check out three ways kitties of all sizes are alike.



BATH TIME

All cats groom their fur to keep themselves clean. A good bath can take away that dirty-fur smell—from, say, an impala or a dead mouse—making the cats less noticeable to their prey. So both big and little kitties have rough tongues to get the job done. Just don't let a tiger get close enough to prove it!



9 HOT-SHOT

THE CAT Scarlett

THE SPOT New York City, New York

WHY SHE'S COOL This cat didn't let anything stop her from saving her babies—not even a dangerous fire. As a four-alarm blaze consumed the abandoned building where she lived, Scarlett ran back and forth through the inferno five times to retrieve her kittens. She singed her fur, burned her paws, and blistered her eyes, but brave Scarlett didn't rest until she sniffed each kitten, double-checking that she had rescued the entire litter. After the fire, Scarlett and her babies were all adopted.



SEE COOL CAT PHOTOS!
natgeokids.com/october

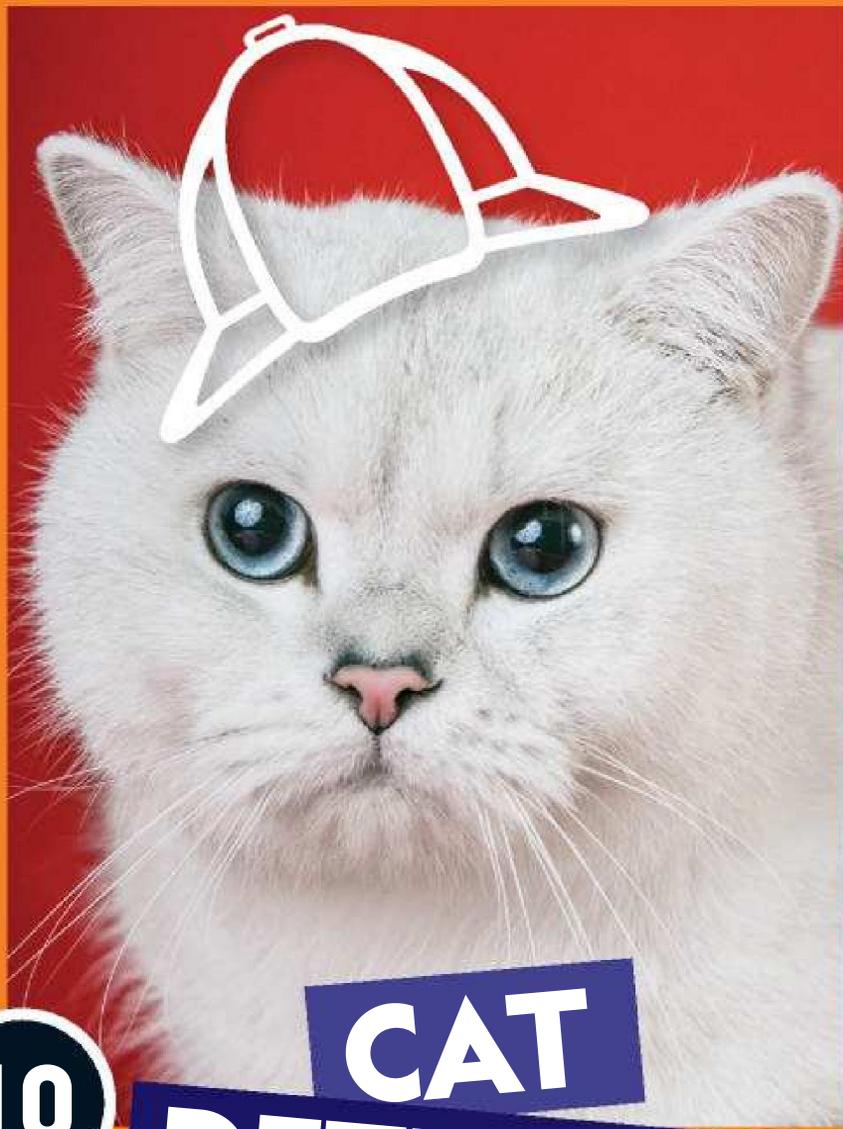
10

CAT DETECTIVE

THE CAT Snowball

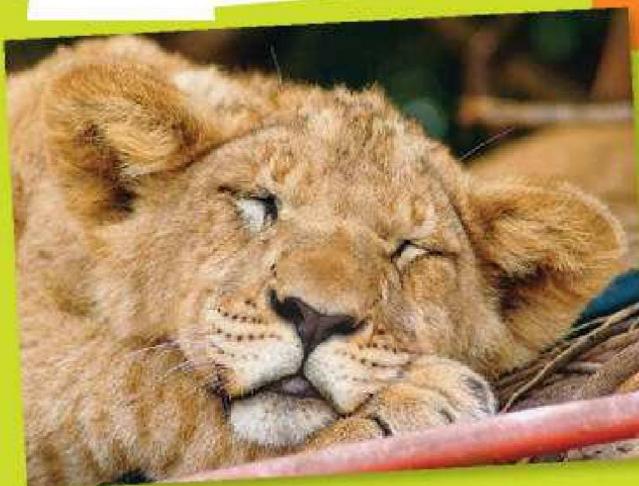
THE SPOT Prince Edward Island, Canada

WHY HE'S COOL Snowball helped solve a crime—a serious one. When police found white cat hairs clinging to a jacket with blood on it, they took a hard look at Snowball and DNA from cells in his hair. Since every individual's DNA is unique, scientists were able to show the hairs were Snowball's. That way, police could connect the jacket and the crime to Snowball's owner, who turned out to be the culprit. It was the first time cat DNA was used to convict a criminal. Looks like Snowball really shed some light on this crime.



SMELL CHECK

Does your kitty rub its head against your legs? It may be signaling to other cats that *you* belong to *it*. Cats have scent glands near their ears and neck and on their feet; they mark their territory by rubbing or clawing. Big cats do this too, though they mark trees instead of you. (That's a good thing!)



CATCHING Z'S

Depending on the species, cats can sleep between 12 and 20 hours a day. They need the rest because both big and little cats are predators and need a lot of energy to catch a meal (even if your house cat is only catching a toy). Big cats have to stalk, chase, then take down their prey. After that? It's snooze time.

EXPLORE THE ARCTIC!



Arctic Circle

Situated on top of the world, the Arctic is an ocean surrounded by continents!

Prepare for a polar adventure with the new **LEGO® City Arctic Expedition** sets!

Many Arctic vehicles have skis to help them glide over ice and snow!

The largest polar bears can weigh as much as a small car!

Woolly mammoths died out around 4,000 years ago, but many perfectly preserved remains of these mammals have been found in the frozen ground of the Arctic. Some are 39,000 years old!

SPOT THE DIFFERENCE

Can you find five differences between these two snowy owls?

Answers on bottom right



BIG ARCTIC QUIZ!

How much do you know about the icy wonderland located on the top of the world?
ANSWERS BELOW

1 TRUE OR FALSE?
Millions of penguins live in the Arctic.

2 Where is the magnetic North Pole located?
a) Greenland b) Iceland
c) The middle of the Arctic Ocean

4 What is a polar bear's main food?
a) Seals b) Snowy owls
c) Arctic hares

5 TRUE OR FALSE?
In 2015, two ancient cave lion cubs were discovered in the permanently frozen ground of the Russian Arctic.

6 Who was the first explorer to reach both the North and South poles during the early 1900s?
a) Roald Dahl b) Roald Amundsen
c) Edmund Hillary

7 TRUE OR FALSE?
Arctic woolly bear moth caterpillars freeze completely during winter. It takes them 14 years to become moths.

8 Which of the following do you NOT need on an Arctic expedition?
a) Waterproof matches
b) Warm, layered clothing
c) Bathing suit

9 TRUE OR FALSE?
In the Arctic, instead of drinking water you can eat snow.

Arctic rodents tunnel under snow to reach food they've stored for winter.

DID YOU KNOW?

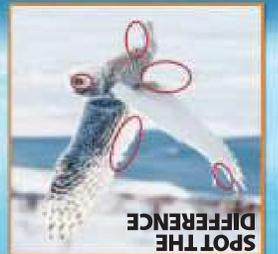
Scientists have used hair dryers to defrost frozen mammoth remains!

EXTRA CHALLENGE

Freeze a LEGO animal in water, then try to excavate it!

1 Because LEGO animals float, you'll have to freeze it in two stages. First put the LEGO animal in a freezer bag half-filled with water. Freeze for a few hours, then top off the bag with water so the LEGO animal is totally covered. Put the bag back in the freezer.

2 After a few more hours, try to free your creature from the ice! Experiment by sprinkling salt on the ice (which helps it to melt faster), or use your body heat or warm water.



SPOT THE DIFFERENCE

BIG ARCTIC QUIZ: 1) FALSE - Penguins live only in the Southern Hemisphere and near the Equator; 2) c) 3) FALSE; 4) a; 5) TRUE; 6) b; 7) TRUE - It's the oldest living caterpillar; 8) c; 9) FALSE - Eating snow won't hydrate you, you need to melt it first.



Follow the #City group for more Arctic adventures in the LEGO® Life App!



Check out www.lego.com/arctic



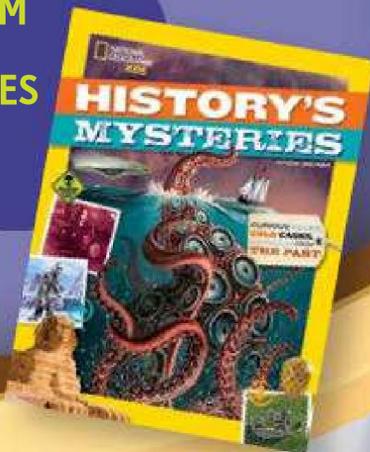
HISTORY'S MYSTERIES

CURIOUS CLUES, COLD CASES, AND UNSOLVED PUZZLES FROM THE PAST

BY KITSON JAZYNKA

See what clues have been uncovered by scientists and historians in five of the world's most head-scratching mysteries.

FROM
THE
PAGES
OF



THE MYSTERY

DOES THE YETI EXIST?

THE BACKGROUND

The word "yeti" means "little man-like animal" in the Tibetan language. According to legend, yetis are hairy (and not so little) ogres that look like a cross between a human and a bear. People today still report seeing the mysterious creatures roaming Asia's Himalayan mountains. The fur-covered monster reportedly stands eight feet tall, weighs some 400 pounds, and snacks on goats. Debate has raged for centuries about whether this creature is man, myth, or bear.

THE CLUES

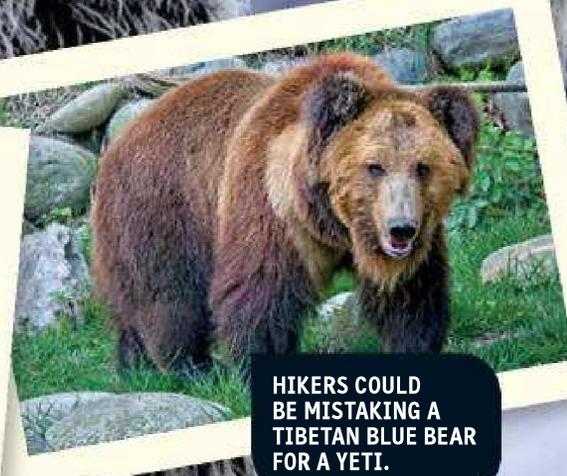
In 1986, a man hiking in the Himalaya photographed what he thought was a yeti in the snow. Other believers have tried testing furry scalps and hair samples, hoping they

belonged to an unknown animal. One man even collected what he said was a yeti finger!

WHAT THE YETI COULD BE

So far, nothing proves that the yeti exists. Test results showed that the scalp belonged to a goat, and the hair samples were from a bear. That 1986 photograph turned out to be a weird rock shape. And the "yeti finger"? Tests revealed it was actually from a human. (That's a whole other mystery!) Some scientists believe that the Tibetan blue bear, a rare type of brown bear that walks upright, is being mistaken for a yeti.

POSSIBLE
YETI
FOOTPRINTS



HIKERS COULD
BE MISTAKING A
TIBETAN BLUE BEAR
FOR A YETI.

THE MYSTERY

WHY DID PEOPLE VANISH FROM THE LOST COLONY OF ROANOKE?

THE BACKGROUND

About a hundred English colonists arrived in 1587 to Roanoke Island, a spot near modern-day Manteo, North Carolina. Not long after, the colony's governor, John White, traveled back to England for more supplies. When White returned in 1590, he was shocked to find an empty village. How did an entire colony of people disappear?

THE CLUES

Archaeologists have found objects made in England similar to what the colonists would've used—including broken bowls and a fragment of a writing tablet—among a nearby Native American settlement called Mettaquem. Other discoveries in the area included buried iron cannons and coffins that might date back to the time of the colonists in the area where Mettaquem would've been. Because the Roanoke colonists were the first English

A REPLICA OF A 16TH-CENTURY SHIP

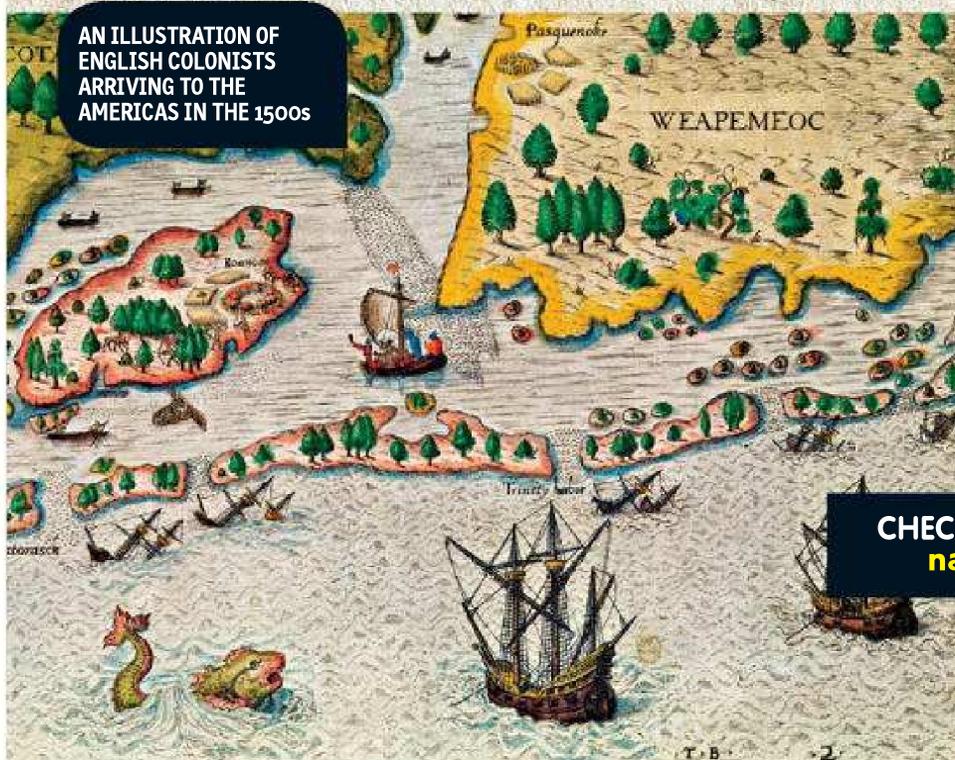
people to try to start a permanent settlement in the Americas, these objects likely belonged to them.

WHAT COULD'VE HAPPENED

The mysterious disappearance of the colonists could have been caused by anything, from low food supplies to disease to an attack by Native American tribes. One theory is that the colonists, facing some kind of threat, split up into smaller groups and fled.

The lost colonists of Roanoke included entire families—90 men, 17 women, and 11 children.

AN ILLUSTRATION OF ENGLISH COLONISTS ARRIVING TO THE AMERICAS IN THE 1500s



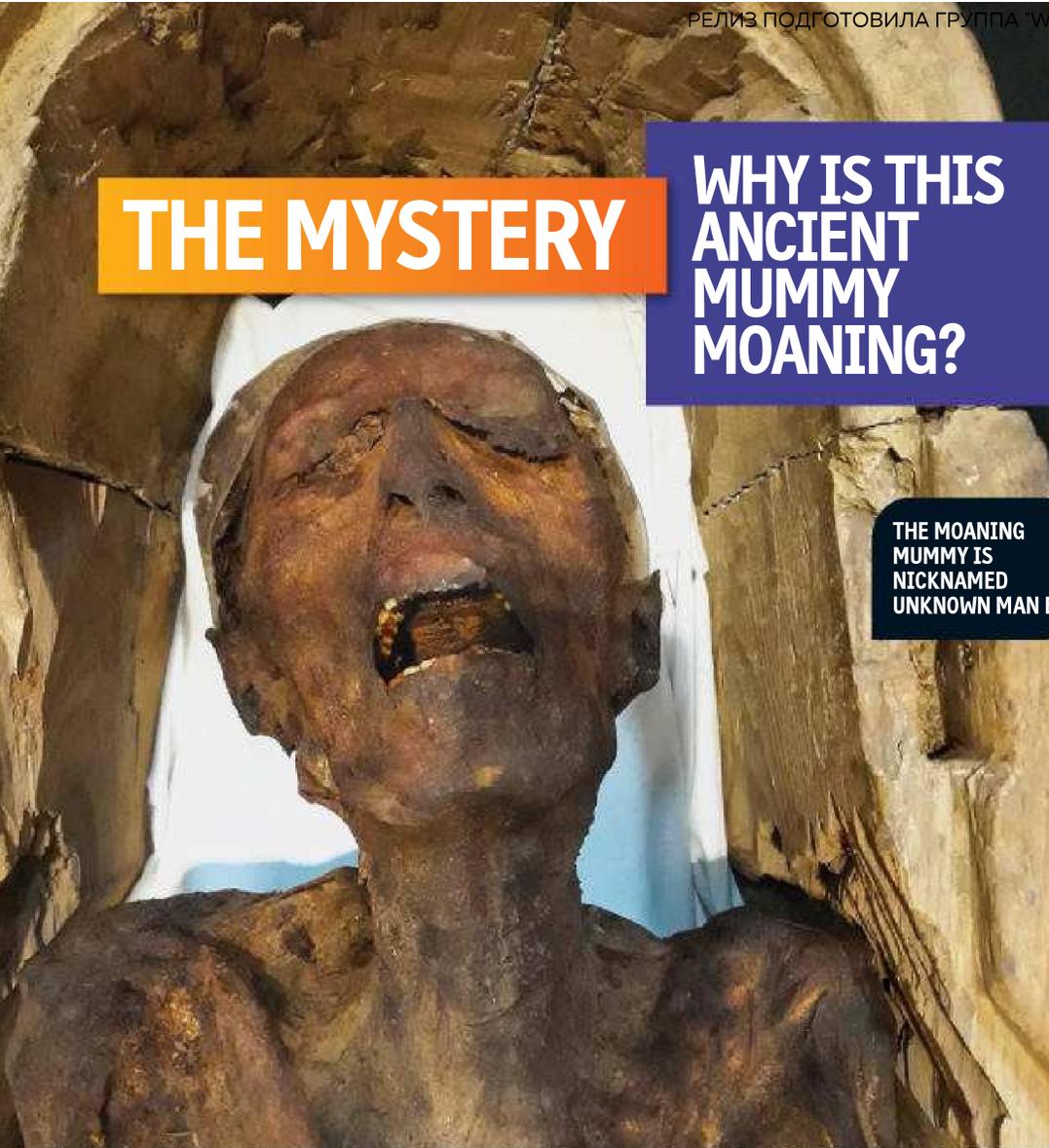
Artifacts found at Mettaquem suggest some of them might have found shelter there, but no one knows why the colonists were fleeing.

ROANOKE GOVERNOR JOHN WHITE (POINTING) FOUND THE WORD "CROATOAN" ON A TREE. EXPERTS WONDER IF THE COLONISTS FLED TO THIS NEARBY ISLAND (NOW CALLED HATTERAS ISLAND).

The yeti is also known as the Abominable Snowman.

© ARABES / DREAMSTIME (MAGNIFYING GLASS, ALL); © CHRISTIAN DARKIN / SCIENCE SOURCE (YETI); POPPERFOTO / GETTY IMAGES (FOOTPRINTS); MARK NEWMAN / FLPA / MINDEN PICTURES (BEAR); PALADIN13 / ISTOCK / GETTY IMAGES (PAPER BACKGROUND); © WILLIAM S. KUTA / ALAMY (SHIP); STOCK MONTAGE / GETTY IMAGES (CROATOAN); SERVICE HISTORIQUE DE LA MARINE, VINCENNES, FRANCE / BRIDGEMAN IMAGES (MAP)

CHECK OUT MORE COOL HISTORY.
natgeokids.com/october



THE MYSTERY

WHY IS THIS ANCIENT MUMMY MOANING?

THE MOANING MUMMY IS NICKNAMED UNKNOWN MAN E.

THE BACKGROUND

Back in 1886, the director of the Egyptian Antiquities Service was removing the wrappings of one of 40 mummies that had been discovered in Egypt's Valley of the Kings when he got a bone-chilling surprise. The mummy looked as if it was moaning in pain. Its mouth was open, its eyes were shut, and its nostrils were flared. Who was this mummy? And why was he moaning?



Along with sheepskin, a strange, dried-out paste covered Unknown Man E.

was also mummified without identification, which was unusual. Ancient Egyptians believed that would've prevented the mummy from entering a happy afterlife.

THE CLUES

A physician who examined the mummy, eventually dubbed Unknown Man E, concluded that he might have been poisoned because of the way the stomach was positioned. Unknown Man E

WHAT COULD'VE HAPPENED

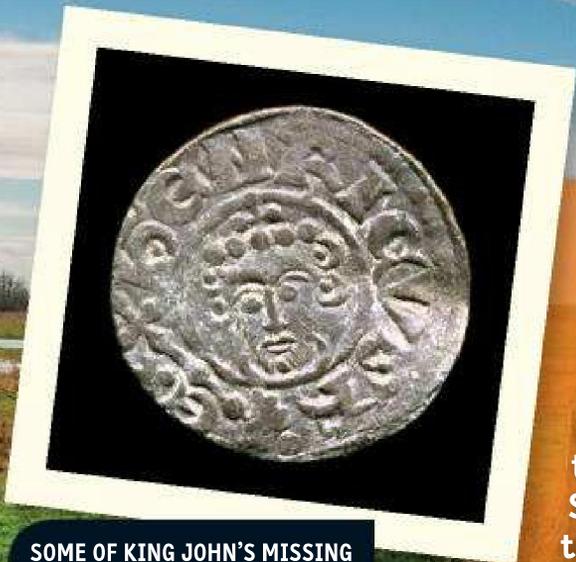
People who were mummified were usually important, so Unknown Man E probably was too. The clues in this case have led most experts to guess that Unknown Man E was punished for a crime.

THE MYSTERY

WHAT HAPPENED TO KING JOHN'S TREASURE?

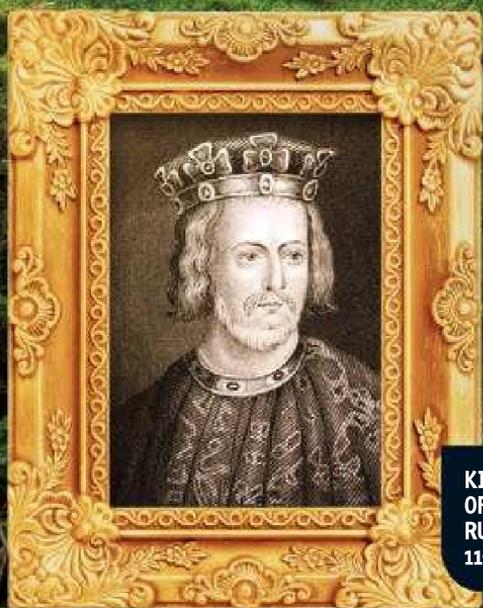
THE BACKGROUND

In 1216, King John of England lost a large load of treasure, including his crown and other bejeweled pieces, as he crossed the River Wellstream. Some say greedy King John, known as King John the Bad, got what he deserved, and the dishonest and disloyal king never did find his missing loot. But centuries later, people are still looking for the treasure.



SOME OF KING JOHN'S MISSING TREASURE WOULD'VE LOOKED SIMILAR TO THIS MEDIEVAL SILVER PENNY.

stopped treasure seekers from following a trail of information provided by aerial photographs showing water drainage patterns to locate the loot. So far, though, it hasn't turned up.



KING JOHN OF ENGLAND RULED FROM 1199 TO 1216.

THE CLUES

In the years since the jewels disappeared, the landscape in that area of the country has changed dramatically. Researchers think these geological changes scattered the treasure far from the spot of the original crossing. But where?

WHAT COULD'VE HAPPENED

Some experts say King John's treasure was lost in the marsh because he and his army were making a hasty escape from their enemies. Others say the ruler abandoned his men, and they got stuck trying to locate him. Today most of England's medieval marshes have been paved with roads or planted with crops. That hasn't



But what exactly did he do?

In 2008 a team of scientists used CT scans, a facial reconstruction artist, and x-rays to figure out who the mummy was. By comparing results from the technology with written descriptions from ancient Egyptian papyrus scrolls, experts believe that the body could belong to Prince Pentewere. The prince was suspected of plotting the murder of his father, Pharaoh Ramses III in 1155 B.C. As a member of the royal family, he might have been allowed to die by drinking poison rather than face execution. Still, some skeptics don't agree the body is Pentewere's. Researchers are still unraveling clues on this mummy mystery.



Kryptos means "hidden" in Greek.

THE KRYPTOS SCULPTURE LOOMS IN FRONT OF THE CENTRAL INTELLIGENCE AGENCY HEADQUARTERS.

THE MYSTERY

WHAT SECRET MESSAGE IS IN THIS SCULPTURE?

THE BACKGROUND

A sculpture called Kryptos sits in a courtyard on the grounds of the Central Intelligence Agency (CIA) headquarters in Langley, Virginia. This coded artwork contains four messages, each on separate panels, only three of which

have been solved... even though the sculpture's located near the smartest code breakers in the world.

This sculpture—which stands 12 feet high and includes 865 letters—has puzzled code breakers since it was first unveiled in 1990. Will the fourth message ever be solved?

Clock," referencing a famous clock in Germany. Another hint: The sculpture was unveiled in November, and experts say that the month is a running theme in the artwork's message.

THE ANSWER?

The clues provided by the artist haven't helped much when it comes to the final message. Some say code breakers must first figure out the Berlin Clock, which "tells" time through a series of blinking and solid lights. Anyone wanting to know the time must observe the patterns and calculate from there. Will this puzzle ever be solved?

THE CLUES

The first message's solution is a poetic phrase by the sculpture's artist; the second hints at something buried nearby, and the third message is from the diary of archaeologist Howard Carter, who discovered King Tut's tomb.

So far, the artist has revealed two words of the fourth message: "Berlin

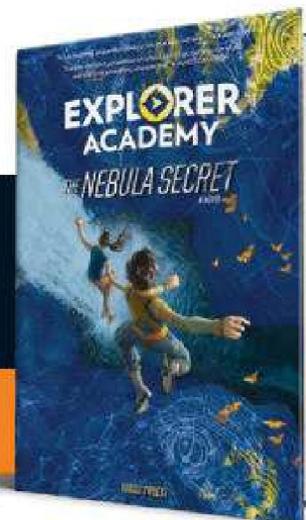


GERMANY'S BERLIN CLOCK

ARE YOU A CODE CRACKER?

Check out the Nat Geo Kids book *Explorer Academy: The Nebula Secret* to see if you can solve the puzzles hidden throughout the story.

ExplorersAcademy.com



THE TREASURE DISAPPEARED AT THE FENS, AN AREA IN ENGLAND THAT FLOODS OFTEN.

King John's lost treasure would be worth an estimated \$70 million today.

KING JOHN (ON WHITE HORSE) AND HIS MEN CROSSING THE RIVER AT HIGH TIDE

DON'T TAKE THIS

QUIZ

BEFORE BED

Find out how good you'd be at defeating the dark forces of the paranormal with this creepy quiz. Good luck—you're going to need it!

BY ANNA CLAYBOURNE

BEWARE: A lot of people don't believe in ghosts, ghouls, vampires, or zombies. Maybe you don't either. And these methods of dealing with them have definitely NOT been scientifically tested. But just in case anything spooky should happen to exist, we've gathered the best advice from folklore, urban myths, and scary movies.



1 WHAT'S THE BEST WAY TO GET RID OF A GHOST?

- A. Get a pet cat.
- B. Spray your entire house with perfume.
- C. Make a trail of candy leading out the door.
- D. Politely ask it to leave.

2 WHAT COLOR SHOULD YOU NOT WEAR TO AVOID ATTRACTING THE MONGOLIAN DEATH WORM, A POSIONOUS CREATURE SAID TO ROAM THE GOBI DESERT?

- A. pink
- B. yellow
- C. black
- D. purple with orange spots

3 WHICH SMELLY FOOD IS SAID TO SCARE VAMPIRES AWAY FROM YOUR HOME?

- A. a tuna melt sandwich
- B. a hard-boiled egg
- C. a bulb of fresh garlic
- D. a slice of stinky cheese



4

HOW CAN YOU AVOID BEING CHASED BY A WEREWOLF?

- A. Don't go out at night during a full moon.
- B. Eat plenty of chocolate.
- C. Carry a daisy with you at all times.
- D. All of the above.



5

WHAT'S THE BEST WAY TO KEEP FAIRIES HAPPY, SO THAT THEY DON'T WRECK YOUR HOUSE?

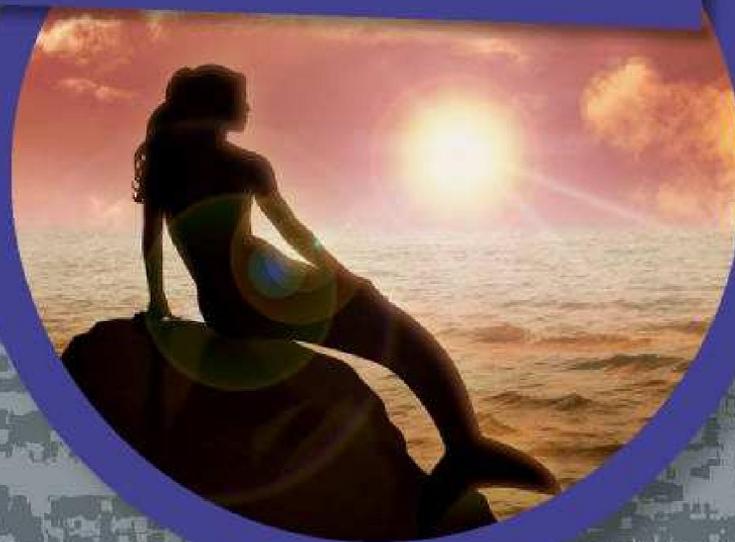
- A. Leave out a bowl of milk or cream for them.
- B. Give them a dollhouse to live in.
- C. Grow mushrooms in your garden.
- D. Hang a teaspoon on your front door.



6

WHILE AT SEA, HOW CAN YOU AVOID BEING LURED TO YOUR DEATH BY SINGING MERMAID-LIKE CREATURES CALLED SIRENS?

- A. Cover your ears with slices of bread.
- B. Sing an even louder song yourself.
- C. Wear a bird feather around your neck.
- D. Have yourself tied to the mast of your boat.



7

HOW DO YOU KEEP WITCHES AWAY AT NIGHT?

- A. Play loud rock music.
- B. Sprinkle coffee grounds around your house.
- C. Hang up a stone with a hole through it.
- D. Draw a star on your doorstep.



ANSWERS

times called a witch stone. It's said to have magic powers that scare witches away.

6. D. Ulysses, the hero of Homer's Greek poem The Odyssey, tied himself to the mast of his boat to avoid the lure of a siren's song—it worked!
7. C. A stone with a hole in it is some-

3. C. Make sure you have plenty of fresh garlic around, and vampires will run away holding their noses.
4. A. Werewolves appear only during a full moon, so this one's easily solved.
5. A. Fairies love to play tricks and make

1. D. Ghosts seem to be reasonable, and it's said they'll go away if you ask them nicely.
2. B. Yellow is supposedly the Mongolian death worm's favorite color, so if you wear it, you may find the poison-squirting worm coming toward you.

HOW MANY DID YOU GET RIGHT?



0-2

YOU'RE GHOST TOAST.

Unfortunately you're not much of a match for supernatural forces. Run and hide!



3-5

NOT BAD FOR A BEGINNER.

Your ghostbusting skills should save you, but you have room for improvement.



6-7

GHOSTBUSTER GENERAL!

When you're around, ghosts and monsters should be afraid—very afraid!



CHECK OUT THE BOOK!



1 **Bats emit** a high-pitched call, then listen for the **sound waves** bouncing off a **bug** to pinpoint the bug's **location**.

2 **Anacondas** are strong enough to give **deadly squeezes** to large animals, including **caimans**.

3 **Blue whales** are the world's **largest predators**—but they eat small, shrimplike krill.

4 The **talons** of a **red-tailed hawk** grip things at least 10 times **stronger** than humans do.

5 The **trap-jaw ant** snaps its lower jaws at 140 miles an hour—faster than the blink of an eye!

6 **Chimpanzees** spend half their day **feeding**, occasionally preying on monkeys and other small mammals.

7 The **Goliath bird-eating spider** can grow to the size of your hand.

30 COOL THINGS ABOUT



8 **Crocodiles** have tear glands near their throats, so chewing makes them shed tears.

9 **Pitcher plants** and flytraps feast on small animals such as **insects** and **frogs**.

10 **Basking sharks** swallow their prey whole: **No teeth** necessary.

11 **Snakes** eat bird eggs, but birds such as **hawks** also eat snakes.

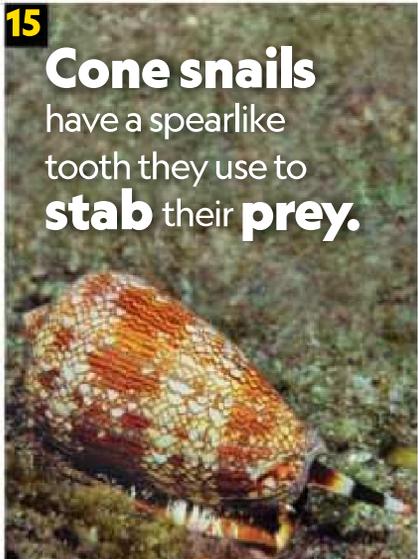
12 **Honey badgers** aren't picky eaters and even munch on venomous **cobras**.



14 **Seahorses** use their snouts to suck in and eat **crustaceans**.

15 **Cone snails** have a spearlike tooth they use to **stab** their **prey**.

13 **A margay** can make noises that sound **like a monkey**. When a real monkey comes to investigate, the small cat **pounces**.





16

Cheetahs

can only **sprint** for about **15 seconds** before they have to **rest**.



17

An assassin bug shoots venom

at the eyes and nose of its prey.



18

A **pelican's** pouch can hold up to **3 gallons** of water as the bird scoops up **fish**.



19

An **arctic fox** can smell a **seal den** a mile away.



20

Dolphins gather in superpods of thousands, breaking off into smaller groups to hunt.



21

A **wolf pack's** combined strength can take down a **moose**—an animal many times the size of a lone wolf.



22

The tiny **mantis shrimp** has two clublike front legs that punch so hard, they can crack a **crab's** shell.



23

The **star-nosed mole** re-inhales its own bubbles underwater to sniff out food.



24

The **Amazonian giant centipede** is armed with up to **46** clawed feet for climbing and grasping **prey**.

PREDATORS

BY CHRISTINA WILSDON



25

A **fox's** thick tail helps it balance as it **leaps** to catch rodents and rabbits.



26

A **polar bear** can kill a **seal** with just **one swipe** of its powerful **paw**.



27

Ladybugs are predators. They eat aphids: small, sap-sucking **insects**.



29

A **Eurasian lynx** will pounce on **deer** and **wild pigs** more than twice its size.



28

Chameleons use their **tongues**—which can be longer than their bodies—to pick **bugs** off tree branches.



30

Birds of prey such as **owls** have sharp, hook-shaped **beaks** perfect for piercing flesh.



WIN THE BOOK!
TRY ONLINE
SEPTEMBER 18-25.
natgeokids.com
/october

FUN

STUFF

GAMES, LAUGHS, AND LOTS TO DO!

Under-the-Sea Halloween

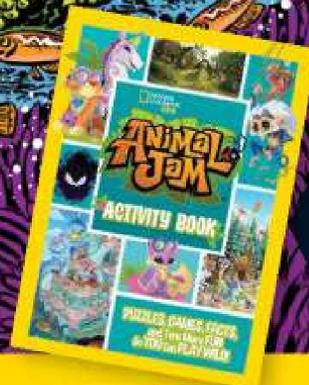
PLAY

These sea creatures are throwing a Halloween party aboard an undersea shipwreck. Join the celebration by finding the 13 items below.

ANSWERS ON PAGE 35

1. pirate hat
2. treasure map
3. lantern
4. violin
5. conch shell
6. seaweed platter
7. teacup
8. parasol
9. compass
10. globe
11. diving helmet
12. spyglass
13. pearls

JAMES YAMASAKI



PLAY MORE GAMES IN THIS BOOK!

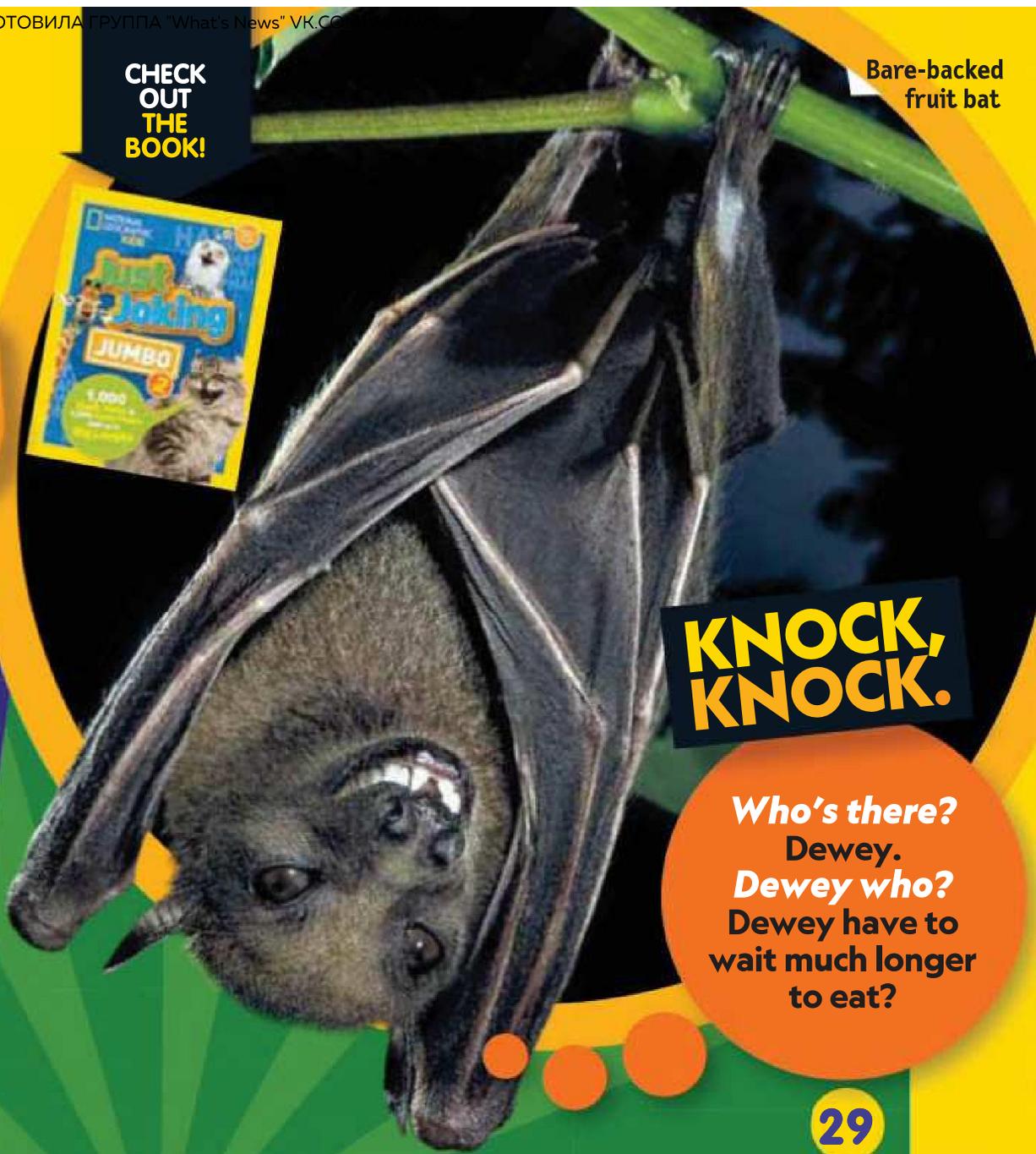
CHECK
OUT
THE
BOOK!

Bare-backed
fruit bat

Just Joking

Q How do you fix a broken
jack-o'-lantern?

A With a pumpkin patch



**KNOCK,
KNOCK.**

*Who's there?
Dewey.
Dewey who?
Dewey have to
wait much longer
to eat?*

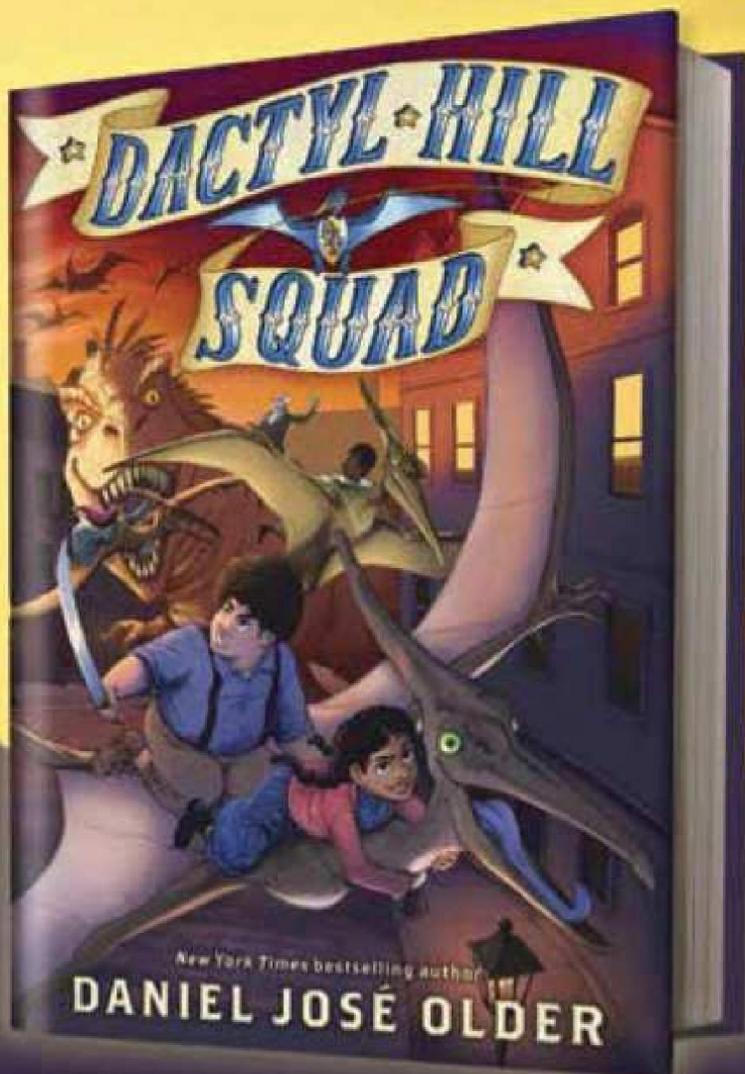
29

PAVEL GERMAN / WILDLIFE IMAGES (BAT); STEVE
BAXTER / GETTY IMAGES (JACK-O'-LANTERN)

ADVERTISEMENT

UNLEASH YOUR ROAR!

Soar back in time with a
brave group of friends and
reimagine the Civil War era
like never before!



START READING at
[Scholastic.com/DactylHillSquad](https://www.scholastic.com/DactylHillSquad)

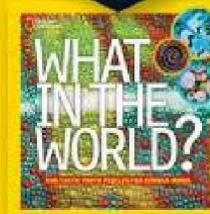


SCHOLASTIC

TM © Scholastic Inc.

WHAT IN THE WORLD?

CHECK OUT THE BOOK!



FEEL LIKE YOU'RE BEING WATCHED? These photos show close-up views of animal faces. Unscramble the letters to identify each creature. **ANSWERS ON PAGE 35**



TBA



RISDEP



YAE-AEY



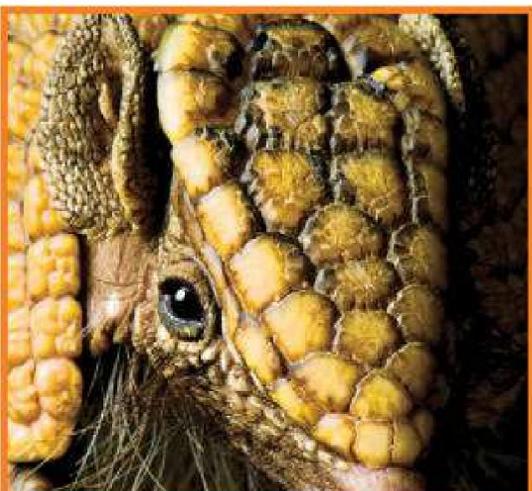
GFOR



UELURVT



SPWA



LDROMAIL



LAAADRSEMN



AHARNIP

TOP ROW (LEFT TO RIGHT): MICHAEL LYNCH / SHUTTERSTOCK; TOMATTO / SHUTTERSTOCK; © MARK CARWARDINE / NATURE PICTURE LIBRARY; MIDDLE ROW (LEFT TO RIGHT): JOEL SARTORE / NATIONAL GEOGRAPHIC CREATIVE; MARTIN HARVEY / GALLO IMAGES / GETTY IMAGES; © HEIDI & HANS-JÜRGEN KOCH; BOTTOM ROW (LEFT TO RIGHT): JOEL SARTORE / NATIONAL GEOGRAPHIC CREATIVE; © MIROSLAVA KOPECKA / DREAMSTIME; GUENTERMANAUS / SHUTTERSTOCK.



FUNNY

FILL-IN

FIELD OF SCREAMS

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 JILL FANSLAU

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



On a dark and _____ night, my friends and I decided to go on a(n) _____ hayride.
 As we rode through the farmer's _____ field, I felt a(n) _____ run down my spine. My
 friends laughed and playfully called me a scaredy-_____. That's when we heard loud _____
 all around us. " _____!" I yelled. My friends said it was probably just the wind _____
 through the trees, but they were as pale as _____. Suddenly, we saw the shape of a(n) _____
 monster appear out of thin _____. It had _____ skin and _____
 arms, and it smelled like a rotten _____. I screamed _____ and _____
 off the hay wagon. I wanted to get home as fast as my _____ would carry me. My friends were right
 behind me. To this day we still have no idea what kind of _____ creature we saw, but we
 won't be going back anytime soon to find out.



EXPLORER ACADEMY

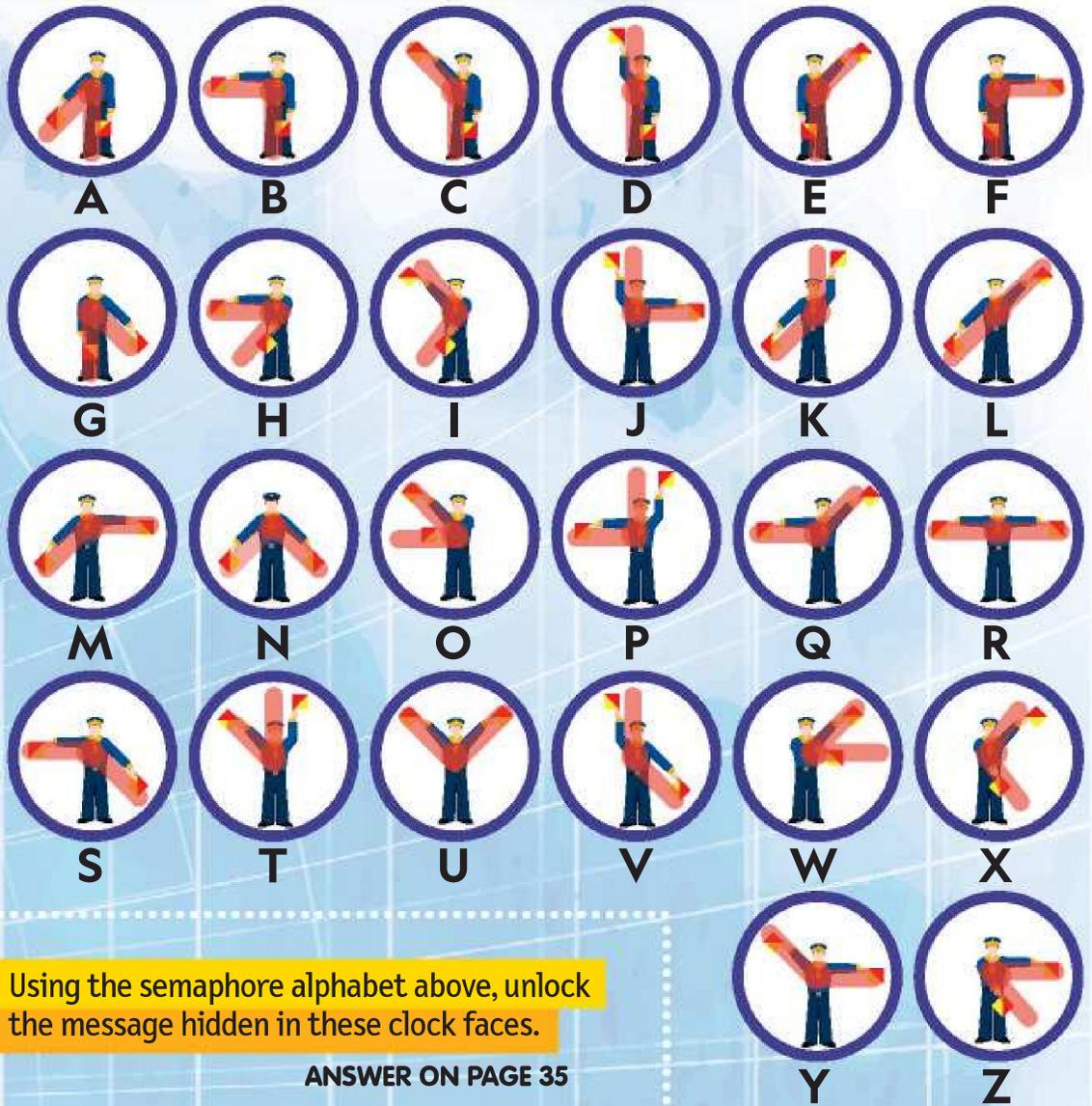
In the new book *Explorer Academy: The Nebula Secret*, 12-year-old Cruz Coronado breaks secret codes in order to fight dangerous villains and solve mysteries. Test your own skills by cracking the code on this page, then check out more about the book at ExplorerAcademy.com.

TEXT AND CODE BY GARETH MOORE

THE CODE: SEMAPHORE

Semaphore is a flag-based communication system in which letters are represented by the way a person holds two flags. Once used by sailors to send messages to other ships, today this code is often used to signal airplanes. See how the code lines up with the flag positions on the right.

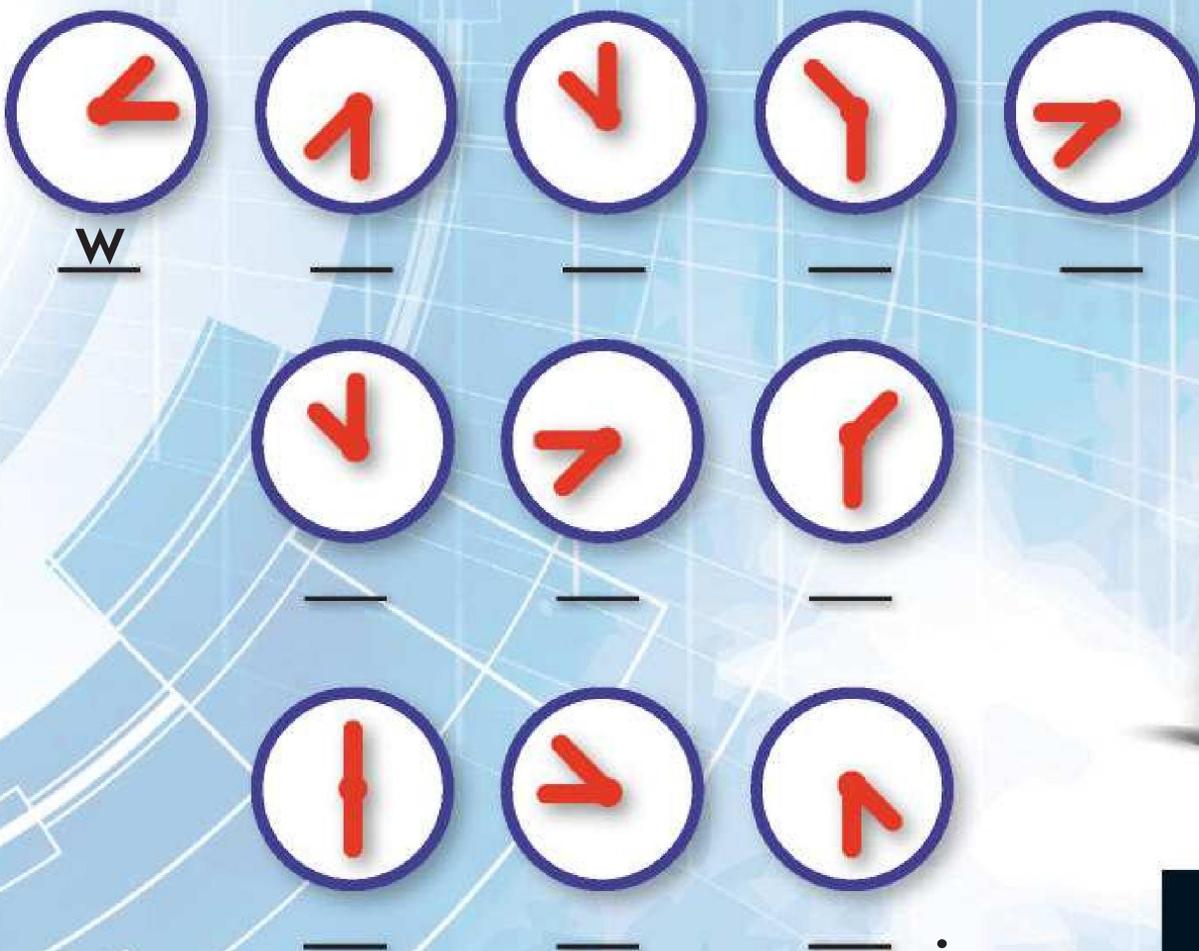
The flag positions can be hidden in any type of image. Below, we've hidden the positions in a clock face.



CRACK THIS CODE!

Using the semaphore alphabet above, unlock the message hidden in these clock faces.

ANSWER ON PAGE 35



CHECK OUT THE BOOK!

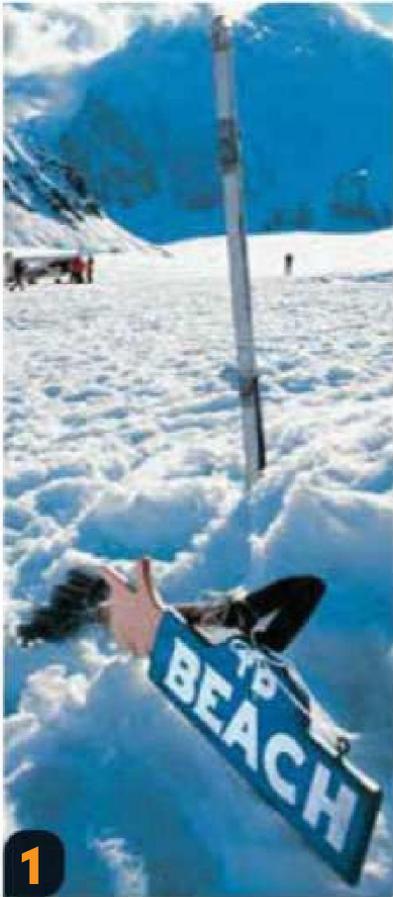
BREAK MORE CODES!
ExplorerAcademy.com

SIGNS OF THE TIMES

Seeing isn't always believing. One of these funny signs isn't real. Can you figure out which one is fake?

ANSWERS ON PAGE 35

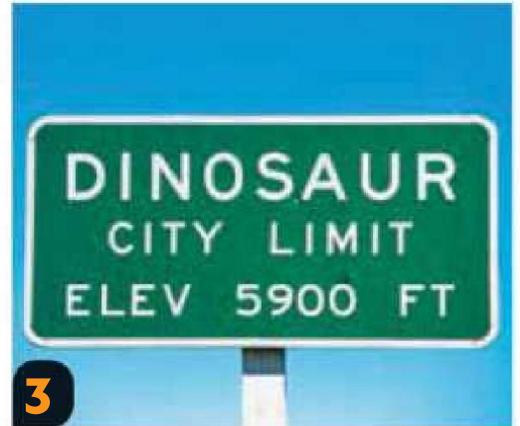
GRANT DIXON / GETTY IMAGES (1); TONY ANDERSON / GETTY IMAGES (2); HOLGER LEUE / GETTY IMAGES (3); RICHARD NEWSTEAD / GETTY IMAGES, IMAGE DIGITALLY COMPOSED (4)



1



2



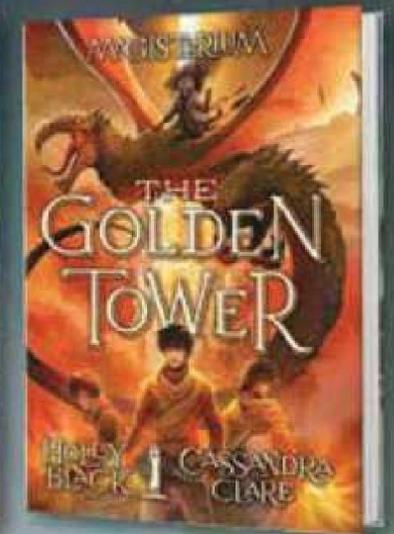
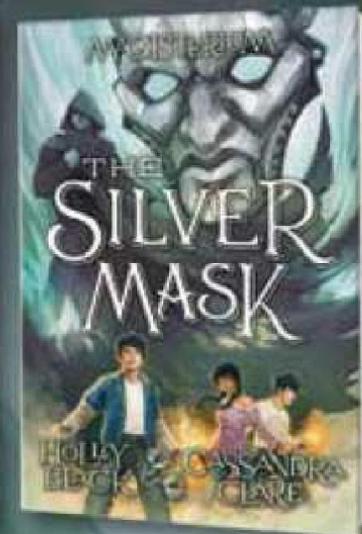
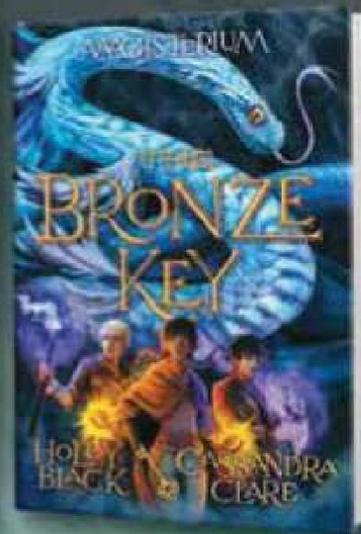
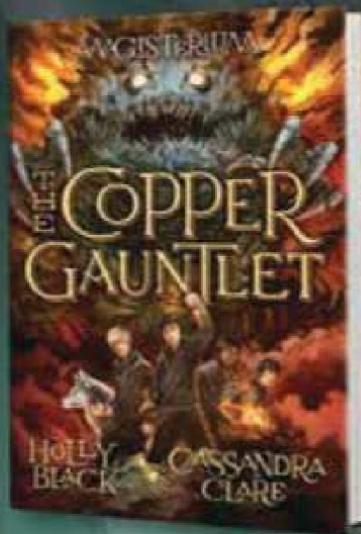
3



4

33

Defy what you think you know about good and evil.

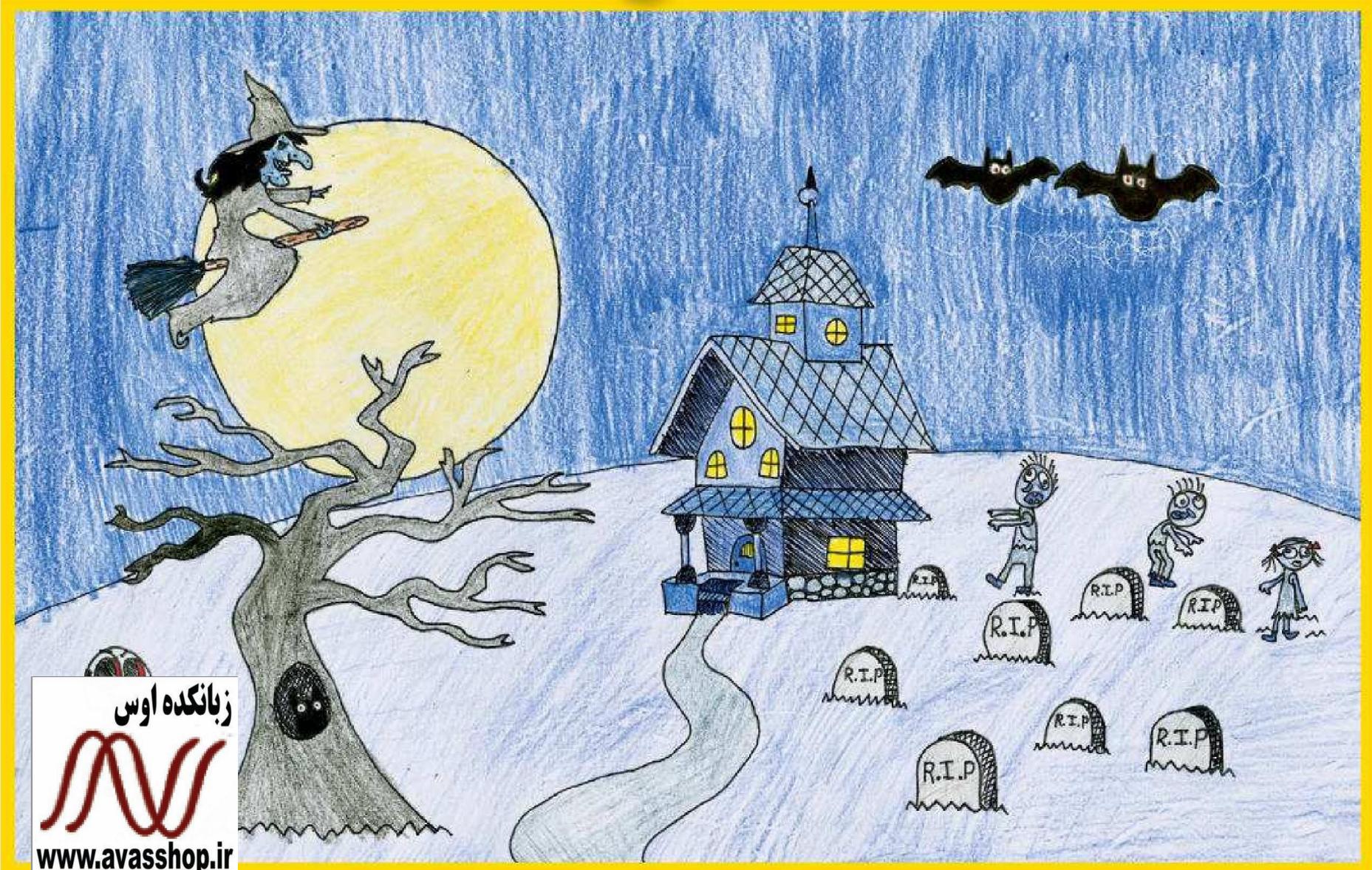


Watch the Trailer!
scholastic.com/magisterium

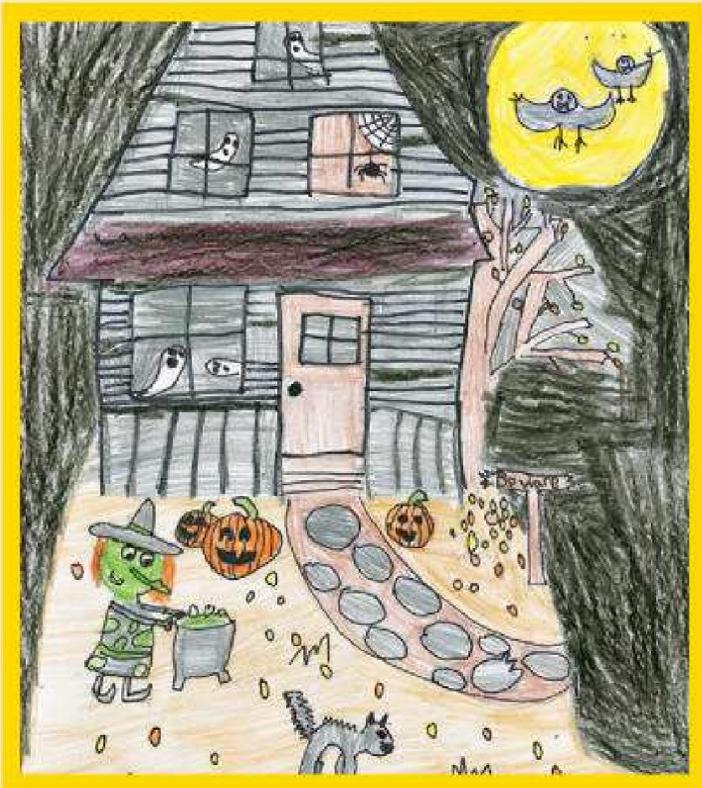
The Epic Conclusion!

ART ZONE

HAUNTED HOUSE
Would you dare ring the doorbell at one of these spooky houses drawn by *Nat Geo Kids* readers?



▲ **Spooky Manor**
Anya W., 11, Auckland, New Zealand



▲ **Trick or Treat**
Elly S., 10, Colorado Springs, Colorado



▲ **Ghostly Night**
Peyton P., 10, Austin, Texas



▲ **Haunted House on Wheels**
Morgan E., 12, Manhattan, Kansas



▲ **The Menacing Manor**
Gillian M., 12, Pembroke, Canada

Draw a creepy Halloween costume.

Send us
your
original
drawings:

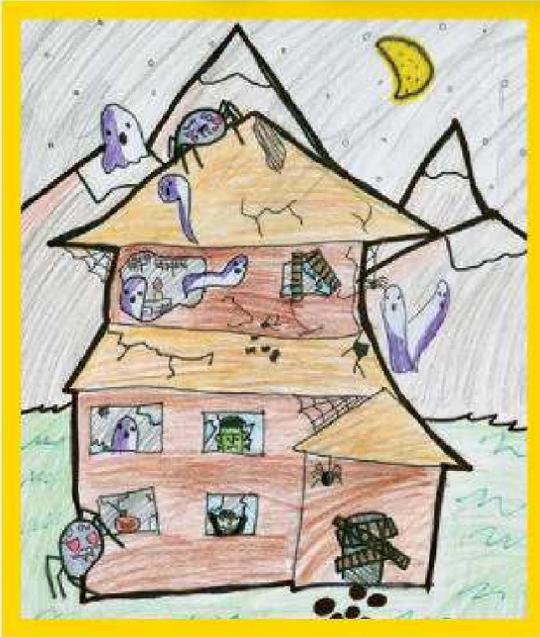
**Nat Geo Kids—
Costume Art Zone**
P.O. Box 98002
Washington, DC
20090-8002

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*.

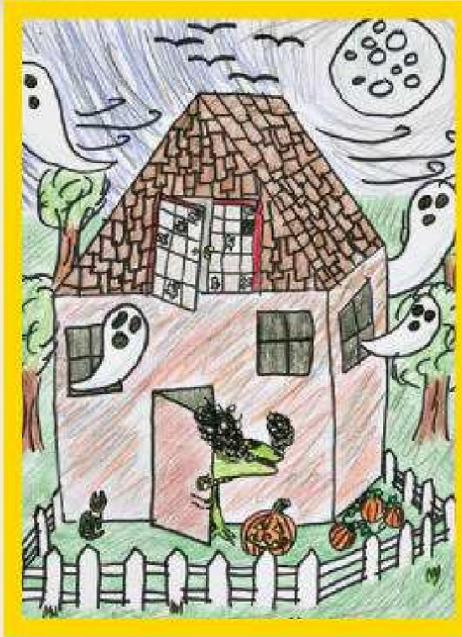


▶ **Batty House**
Eva B., 11,
Los Angeles,
California

▶ **A Haunted
Halloween
Home**
Roochi N., 10,
Charlotte,
North Carolina

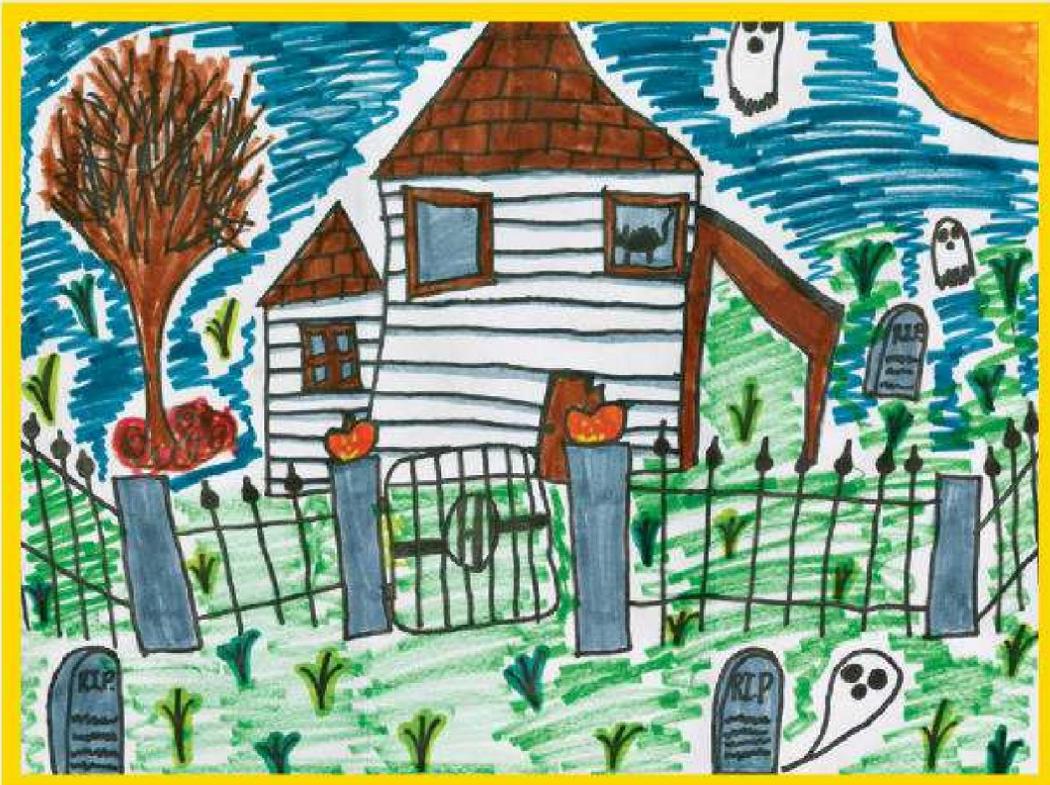
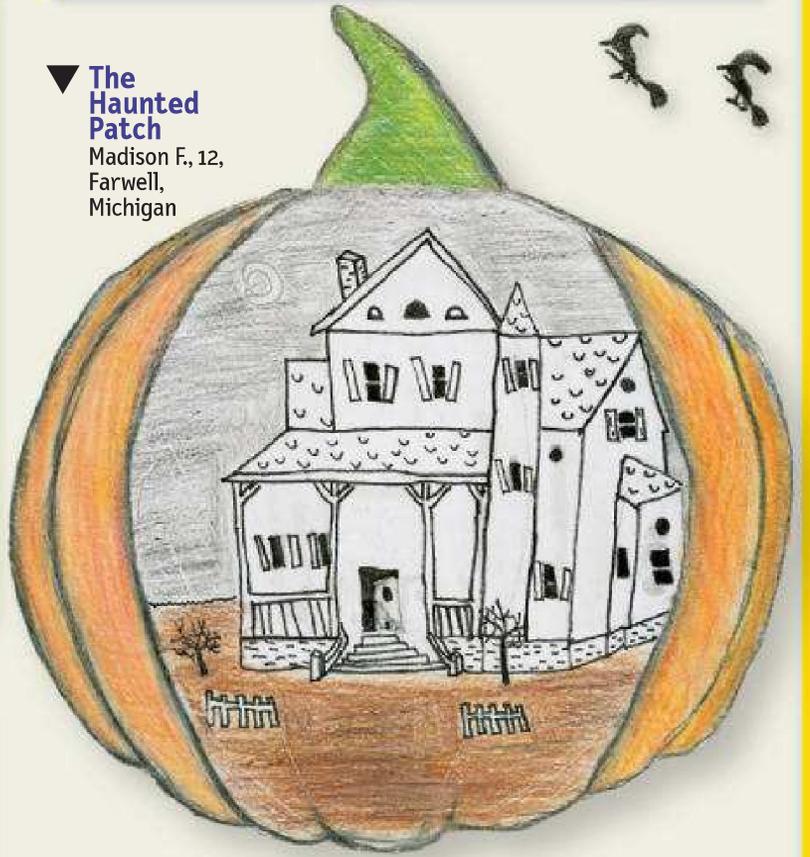


▲ **Ghost House**
Will G., 12, California, Maryland



▲ **On Halloween Night**
Campbell P., 12, Bordentown, New Jersey

▼ **The
Haunted
Patch**
Madison F., 12,
Farwell,
Michigan



▲ **Scary Night**
Rylee S., 13, Waynoka, Oklahoma



“What in the World?”
(page 30): Top row: bat,
spider, eye-eye. Middle row:
frog, vulture, wasp. Bottom
row: armadillo, salamander,
piranha.
“Explorer Academy”
(page 32): Watch the dog.
“Signs of the Times”
(page 33): Sign 4 is fake.

“Under-the-Sea Halloween”
(page 28):

ANSWERS