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#### **ON THE COVER**

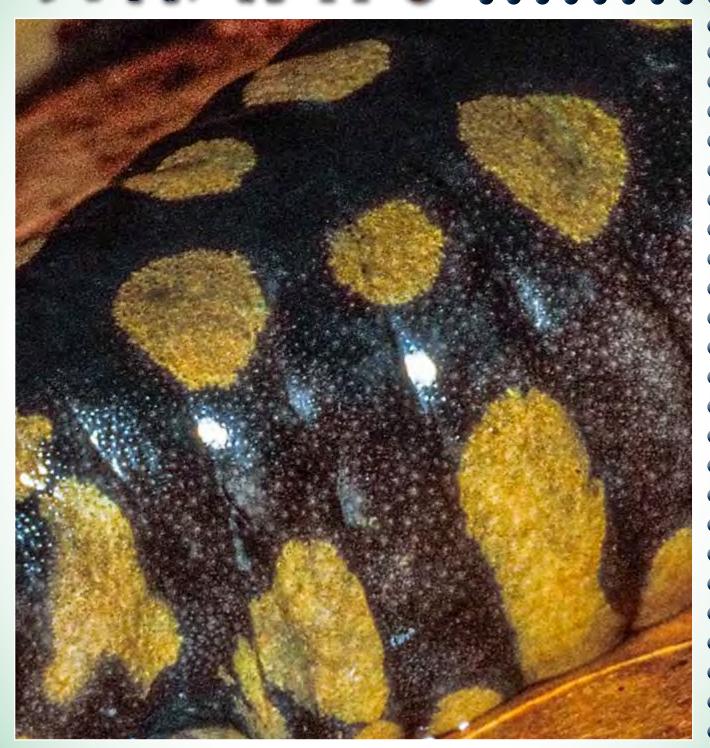
Striped Skunk

by Noppadol Paothong



### DON'T KNOW?

Jump to the back cover to find out.

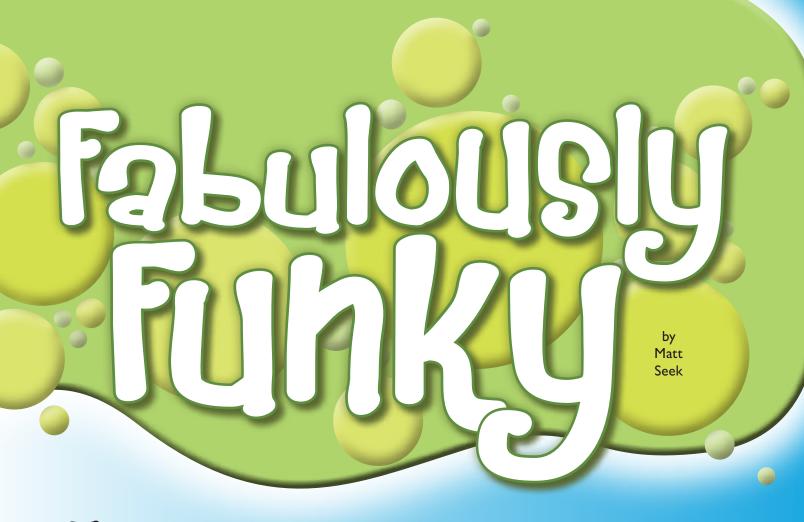


- 1 Like a tiger, I hunt in the night.
- 2 In the day, I stay hidden from sight.
- 3 During fall rains, I join others like me ...
- 4 ... in a pond to begin a new family.









The young coyote was hungry — and dumb. It had cornered a cat-sized animal against a fallen log. The animal looked fat and delicious. Yet something about it wasn't quite right. This was usually the point in the coyote's attack when prey made a last-ditch attempt to flee. But the little black creature was standing its ground.

Eventually, hunger overpowered the coyote's wariness. With

a yip, the wild dog bared its fangs and leapt forward ... directly into a yellowish-green cloud of stink. Suddenly, the predator couldn't be a predator anymore. Its eyes burned. Its nose stung. And the smell — hoooowwl — the smell was unbearable.

As the coyote ground its head into the dirt, trying in vain to rub the stench from its fur, the little black creature waddled away. It had just taught Missouri's craftiest predator a lesson it would never forget: Messing with a skunk is a stink you don't want to raise.



striped skunk — upwind, from a distance, and wearing a gas mask, of course — you might notice its short legs, its small head, or its bushy tail. But more likely the first thing you'd spot was its black-and-white fur. The bold stripes act like a warning sign to other animals. They're how a skunk yells "BACK OFF!" without making a sound.

Skunks aren't built to avoid predators. For one, they're terribly near-sighted. A predator could creep within 10 feet of a skunk before it ever took notice. And skunks aren't speed demons. When pressed, the chubby mammal might waddle off at 8 mph — about as fast as a toddler on a wobbly walk.

But why hurry and why worry? After all, nature has equipped skunks with a superpower that makes them nearly predator proof.

### Reluctant Warriors

Some skunks — particularly youngsters — are trigger-happy and will let their funk fly at the slightest sign of danger. Most, however, will go to great lengths to warn attackers before unleashing the nuclear option.

If a threat approaches, a skunk often flares out the hairs on its tail like a scared cat. It might stamp its front paws rapidly on the ground, *pata-a-pat-a-pat!* It may click its teeth, growl, or hiss. Or it may flip into a handstand and walk around with its tail pointed skyward. This would be adorable except for what usually happens next ...

#### fighting the funk

If your dog — or your little brother —
happens to get sprayed, you have two options. 1.
Make them stay outside (preferably downwind) for
the next three weeks. 2. Fight chemistry with chemistry.
Mix together 1 quart of 3 percent hydrogen peroxide, ¼
cup of baking soda, and a tablespoon of dish soap. Lather
the concoction into Fido's fur (or your little brother's hair)
and let it sit a bit. The mixture will react with the stinky
chemicals in the skunk spray and turn them into harmless,
odorless molecules that you can rinse away. Whatever
you do, don't soak the victim in tomato juice. It
won't quell the smell. It will just make them
smell like skunky spaghetti sauce.

#### Stink Bomb

If a predator won't back down, the skunk bends its body into a U shape, so that both its head and its dangerous derrière are pointed toward the attacker. Two fleshy nozzles push out from below the skunk's tail. Like squirt guns, the nozzles shoot out stinky musk. The spray is so powerful, your nose can detect one molecule of the foul-smelling fluid in a billion molecules of air. In fact, you can catch the whiff of a skunk's back blast from more than a mile away!

When a skunk is being chased, it can drop a fog of foulness that its chaser must run through. When cornered, a skunk can squirt a stream of stink directly at a predator's pie hole. In calm weather, the musky mammals can bull's-eye a target from 10 feet away and get close enough to make a victim hate life from a distance of 20 feet. Even worse, a skunk can fire five or six times before running out of ammo.







#### Missouri's Other skunk

Though striped skunks are far more common, Missouri is home to another flavor of skunk: the eastern spotted skunk. Smaller than their striped cousins, spotted skunks scamper rather than waddle and are agile enough to climb trees. In most of the U.S., spotted skunks prefer open prairies and brushy fields. But in Missouri, they're most likely to be found in Ozark woodlands.

Spotted skunks were once common in the Show-Me State, but in the 1940s they all but disappeared. Today, spotted skunks are rare. If you're lucky enough to spot one, please call your local Conservation Department office to report where you saw it.

### Shuggle Buddies

In autumn, skunks pack on pounds. The fat helps them survive winter weather. When temperatures drop, the chubby eating machines retire to their dens for winter naps that can last for weeks. During this time, several skunks may gather in the same den for warmth. They even join other animals, such as woodchucks, opossums, and rabbits. As many as 20 skunks have been found snuggled together in a single den.

### Spring Speed Bumps

The most likely month to catch a whiff of skunk funk is March. This is when skunks wake from their long winter naps hungry for food — and for love. Mate-crazed males wander widely to find females, and many of the near-sighted Romeos get pancaked when they cross highways.

#### Little Stinkers

Although their boyfriends leave after just a few days, girl skunks aren't lonely for long. By May, females are busy turning their dens into nurseries. There, they give birth to a litter of four to eight babies.

At birth, the kitten-sized kits are blind, toothless, and nearly hairless, but their skin shows the iconic black-and-white markings. After two weeks of drinking mom's milk, the kits are fully furred. A few days later, their eyes squint open. And a month after that, mom takes her little stinkers — now armed and dangerous — out for their first nighttime hunts.

The family stays together until fall. Then, the youngsters strike out to be fabulously funky on their own.









Did you know America adopted the bald eagle as its national symbol in 1782? Sadly, this big bird of prey

wasn't strong enough to survive habitat loss and pesticides. These chemicals poisoned their food and weakened their eggs, making it nearly impossible for healthy chicks to hatch. By 1963, with only 487 nesting pairs of bald eagles left, the United States listed the bird as endangered. Protected from harm and with breeding programs and restored wetlands, the bald eagle slowly recovered. Now, you regularly see them soaring along Missouri's waterways, especially in winter.

Unless you live in the Ozarks, you probably haven't seen many bears in Missouri. But they were once fairly common across the state. Settlers hunted them for their meat, fat, and hides. By the early 1900s, black bears disappeared from Missouri. Over the last 40 years, however, black bears have reappeared in Missouri's Ozarks. Researchers think a small group may have survived there all along and are tracking the bear's reappearance. They're also helping everyone get used to the idea of having bears in our state again.

HELPING HABITAT HELPS Wildlife

Wildlife needs habitat — the right kind of space, shelter, food, and water — to feel safe and secure. You can't expect to see all Missouri's wild critters where you live. But you can help your local wildlife keep winning the fight for survival.

Don't litter and help clean up trash, especially when you hike or float.
Litter hurts wildlife.

Don't dump your bait or unwanted aquarium pets.
Releasing nonnative fish, frogs, and other critters into the water can hurt Missouri's native animals.

Make room for wildlife in your yard. Birds and butterflies need native flowers, shrubs, and trees. Frogs, toads, and turtles like a little wild area with some water, if possible. Bunnies will use an out-of-the-way brush pile, and

brush pile, and squirrels need nut-bearing trees like oaks, hickories, walnuts, and pecans.

MONARCH + MILKWEED





YOUR GUIDE TO ALL THE INJUSUAL UKIOL AND UMBELIEVABLE STUFF
THAT GOES ON IN NATURE

A MORTHERN CARDINAL can sing a duet all by itself. Your voice box can make only one sound at a time. But many birds have a two-tubed syrinx (seer-inks) that can produce two sounds at once.

Fishmas trees: Many people, including Conservation Department biologists, sink their CHRISTMAS TREES - minus the ornaments and tinsel, of course — into lakes and ponds. The dense branches provide hiding places for fish and other aquatic creatures.



a lightweight coat of reddish-tan fur. When the weather turns colder, deer grow a shaggier coat that looks grayish-brown.



Shakespeare featured birds in many of his plays and poems. On a cold winter's day in 1890, a Shakespeare fan released 60 FIRNPEAN STARLINGS into New York City. Today, more than 200 million starlings live across the United States.

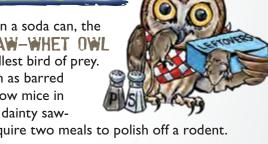
In frigid winter weather, STRIPED SKUNKS

curl up for power naps that can last several weeks. During these supersized slumbers, the chubby mammals burn fat like marathon runners. Female skunks, in particular, may drop 40 percent of their weight.

Barely bigger than a soda can, the MORTHERM SAW-WHET OWL

is Missouri's smallest bird of prey. Larger owls, such as barred owls, often swallow mice in a single gulp, but dainty saw-

whets usually require two meals to polish off a rodent.









## Offer fatty foods, too.

Suet cakes or peanut butter mixed with cornmeal provides a high-energy snack for woodpeckers, nuthatches, and chickadees.

## Remember water.

Like all animals, birds need water to survive. A pan of water will wet a thirsty bird's whistle if the weather's warm. When it's cold, a heated birdbath is best.

## Put up more than one feeder.

Sometimes one bird will hog all the food at a feeder. (We're looking at you, blue jay.) To share the love with the rest of the flock, put up an extra feeder or two.

### Hang feeders near windows.

It sounds silly, but placing feeders within 3 feet of a window is the best way to keep birds from crashing into it. Why? Birds are more likely to notice the glass, and even if they don't, they aren't likely to be flying fast when they take off and land at the feeder.

## Keep your feeders full.

If you forget to fill your feeder, don't sweat it. Birds will find food elsewhere. But to keep your feathered friends coming back, keep the food a-coming.

## Keep cats inside.

Who doesn't love cute little kitties? Birds, that's who! Biologists estimate that house cats kill nearly a billion birds in the U.S. each year. So keep Fluffy indoors. It's safer for her and for the birds.

Baffle squirrels.

Bushy-tailed bandits can gobble

seed by the bushel. Discourage

squirrels by putting baffles - wide,

saucer-shaped pieces of plastic —

above and below your feeders.

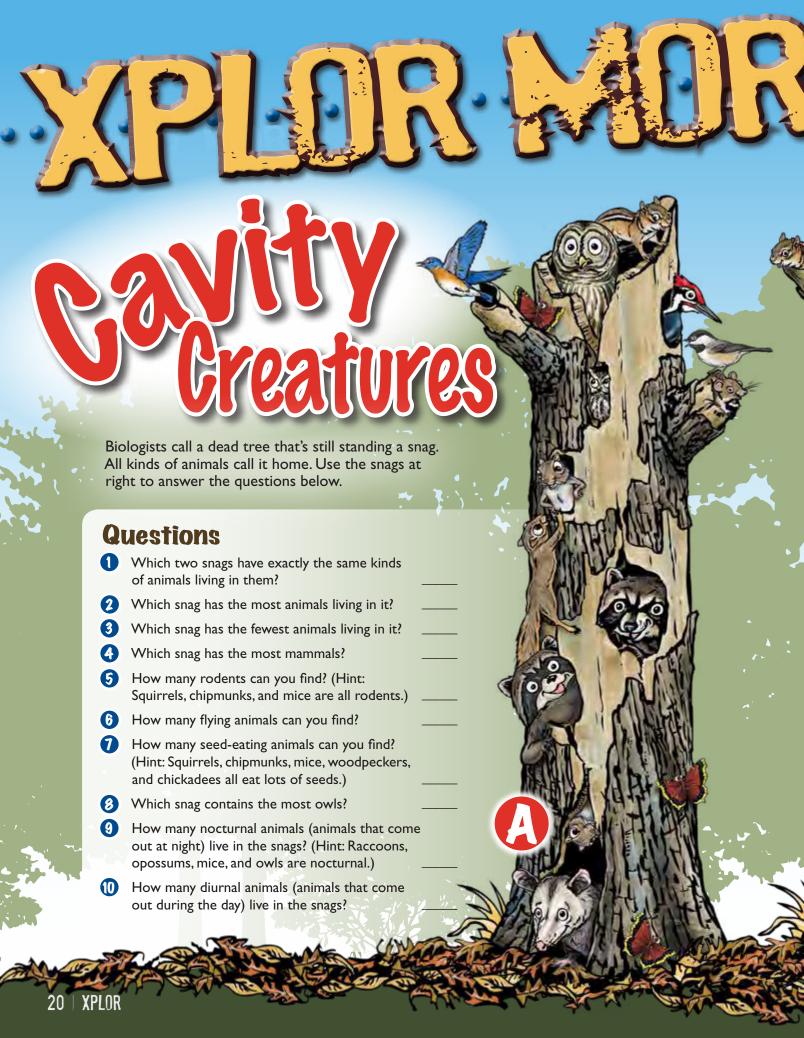
A trash can lid makes an inexpensive yet effective

baffle.

When possible, place your feeders near trees and shrubs — but not too close. Birds need cover to escape from predators and to take shelter from wind and rain. But bushes also offer hiding places for cats and other bird munchers. Hanging feeders 10 feet away gives birds the best chance.

# Offer shelter.







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## Eastern Tiger Salamander



- Unless you're out at night after a heavy rain, you probably won't see the eastern tiger salamander. Active only at night,
- it feeds on snails, slugs, and bugs. During fall rains, it migrates to fishless ponds to breed. In late February, courtship begins. Each female may lay up to 1,000 eggs, and gilled larvae hatch a few weeks later. They live in the water until
- late summer, when they transform into land-dwellers. Learn more at mdc.mo.gov/field-guide.