





RIVER OTTER by Dave Stonner

Camping With Dad Dad learns many lessons on his first camping trip.

10 Back to School
See how these wild parents teach their critters how to survive.

DEPARTMENTS

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ON THE WEB

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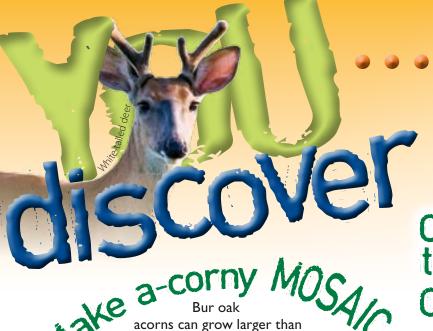
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DON'T KNOW? Jump to the back cover to find out.



- 1 Disguised as poo, I hide in plain view.
- 2 In the blink of an eye, I can let my stink fly.
- 3 If you think I look vile, just wait a while.
- 1'm a little squirt now but giant when full grown.



acorns can grow larger than a golf ball. Pin oak acorns are usually smaller than gum balls. Some acorns are round; others are oval-shaped. Gather acorns in a variety of shapes and sizes to make a-corny

mosaic. Once you decide upon a design, glue the acorns by their caps to a piece of cardboard. Place your mosaic under a tree and weight it down with rocks. Hungry chipmunks, squirrels and blue jays will soon stop by for a snack and lend a paw—or beak—to transform your art.

ith summer winding down and autumn gearing up, there's plenty to discover outside in August and September. Here are a few ideas to get you started.

Compete in the outdoor **OLYMPICS**.



By the time you read this, athletes from throughout the world will have gathered in London for the Olympics. Why not gather some friends and host your own Olympics—with a wild twist? Instead of awarding medals to the fastest swimmer or highest jumper, see who can spot the most birds, catch the heaviest fish or capture the biggest bug.

For other event ideas, sprint to xplormo.org/node/18169.

Search for BUCK RUBS!

Male white-tailed deer grow a new pair of antlers every year. Throughout spring and summer, newly sprouted antlers are cloaked in a fuzzy covering called velvet. In the fall, bucks scrape off the velvet by rubbing their antlers against small trees and shrubs. Head to the woods in September to search for "buck rubs." If you find some, it's a good bet there's a buck nearby!

Don't miss the chance to Discover Nature at

GO DOVE HUNTING.

Statewide; Season opens September 1. For information, visit mdc.mo.gov/ node/3798.

Watch hummingbirds get banded at SUMMER HUMMERS.

Springfield Conservation Nature Center;

August 19, 5-6:30 p.m. Register at 417-888-4237. Hummingbird

Bee-friend some insects at the POLLINATION INVESTIGATION.

Missouri Department of Conservation's Kirksville office; August 8, I-2 p.m. For information, call 660-785-2420.

PEDAL THROUGH NATURE.

The Katy Trail is
Missouri's longest
and skinniest state park,
stretching 237 miles from
the town of Machens in the east
to Clinton in the west. Late September,
when temperatures have cooled and trees
are beginning to show spectacular fall color, is
a great time to bike a stretch of the Katy. Nearly a
dozen conservation areas line the trail and offer places
to fish, camp, explore or just make a scenic pit stop. To
plan your trip, pedal over to katytrailstatepark.com.

Search the WEB.

Arachnologists (scientists who study spiders) estimate that a typical acre of Missouri is home to between 30,000 and 2.5 million spiders. Most spiders go unnoticed, but in early fall, orb weavers announce their presence by spinning spectacular webs in gardens and near houses. The webs offer the perfect opportunity to watch the eight-legged animals in action. To become a true spider insider, see how many webbuilder behaviors you can check off our spider-spotter list at xplormo.org/node/18168.

CANEPOLE

Cool autumn weather can make catfish hungry. So dig up some worms, grab a cane pole and find a stream. Search for trees that have overturned in the water. Minnows and insects hide in the roots, and hungry catfish lurk nearby hoping for an easy meal. Drop a baited hook upstream of the roots and let the current pull your bait toward the target. If you feel a tug, set the hook and hang on! For more catfishing tips, cast a line to mdc.mo.gov/node/7567.

and of ait are ps,

these fun events.

Take your camera on a FREEZE FRAME SCAVENGER HUNT

Burr Oak Woods Conservation Nature Center; Blue Springs; August 18, 10–11 a.m.

For information, call 816-228-3766.

Float the Mississippi during a DAY ON THE RIVER.

Cape Girardeau Conservation Nature Center; September 22, 9 a.m.-4 p.m. For information, call 573-290-5218.





Blue catfish

Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at xplormo.org/node/2616.



nteresting insects, colorful fish and camouflaged crawdads await discovery just beneath the riffles of a stream. Build an underwater viewer to calm the water and see what you've been missing.

GATHER THESE SUPPLIES

> A coffee can, potato chip tube or other cylinder-shaped

- > Clear plastic wrap
- > Rubber bands
- > Duct tape

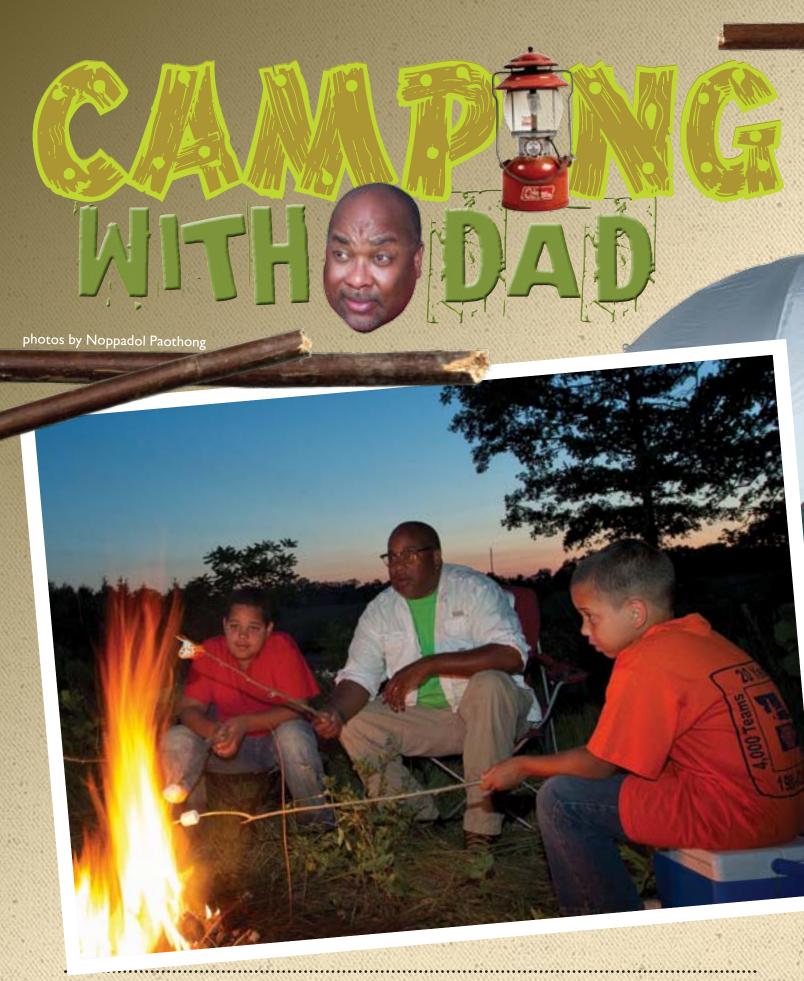






- > Ask an adult to cut out the bottom of a coffee can or other food container. This will make a tube that's open on both ends.
- > Stretch a piece of plastic wrap over one end of the tube to form a smooth, tight window. Snap a rubber band around the tube to hold the plastic in place.
- > Wrap duct tape around the tube to seal the plastic wrap. It may take several rounds of tape to make the plastic wrap waterproof.
- > Head to your favorite stream, lower the window of the viewer into the water, and see how many cool creatures you can spot.





Dad blew out the flame on his marshmallow and popped the charred chunk of molten sugar into his mouth. When he quit howling, he looked around the campfire at my brothers and me. "You know," he said, "we should do this again."

Flames crackled and danced in the cool night air. A bowl of stars twinkled overhead. Somewhere a whip-poor-will called. Despite all the craziness, it had been a fun day. It just had a few rough spots ...





We woke that morning to find Dad buzzing around the house, gathering this and that. A spoon from the kitchen. A saw from the garage. The blanket from our dog's bed. He stuffed it all—along with a pair of boxers and his toothbrush—in a trash bag.

"Let's go camping," he said.

My brothers and I have camped dozens of times with our scout troop. We know plenty of tricks to make camping fun and comfortable. Dad, on the other hand, hadn't slept outdoors a day of his life. It looked like we had some work ahead of us teaching our tricks to Dad.



Practice Makes for a Perfect Pitch

One good trick is to practice setting up your tent at home. That way, you won't hike five miles into the woods—like Dad did—only to discover you're missing a tent pole. Pitching your tent at home gives you a chance to patch holes that might leak or let in bugs. It helps you learn to set your tent up quickly, in case you arrive at camp in the rain or after dark. If Dad had practiced beforehand, maybe we wouldn't have wasted an hour trying to untangle him from the tent poles. That's time a kid just can't get back.

Location, Location, Location

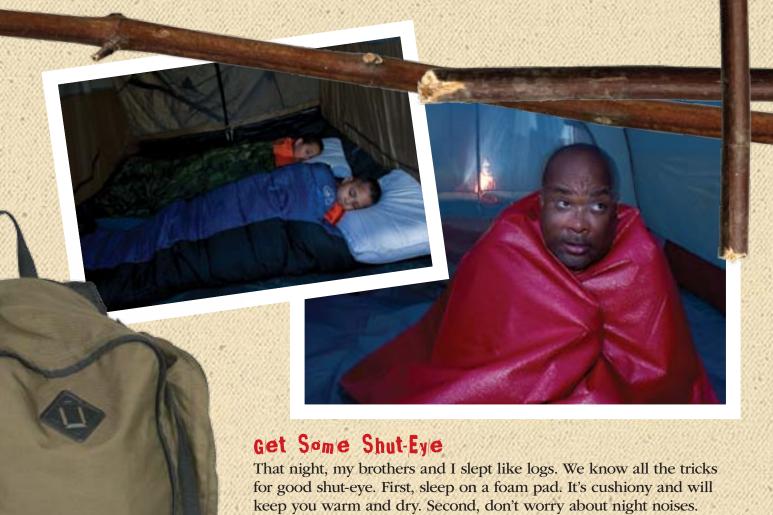
Dad swept his hand grandly around the woods. "Here I will camp," he announced. I shook my head and pointed up. The branch above him was buzzing with bees. Who knew Dad could squeal like that? When he'd calmed down, we told him: Look for dead limbs, bee hives and other hazards. Avoid low areas where water collects when it rains. Pick a flat spot free of pokey things that might make your bed lumpy. On his second try, Dad got it *mostly* right.





What Would Smokey Do?

"Let's build a fire," Dad said. "A big one!" His eyes twinkled as he imagined the five-alarm blaze. Then, before we could stop him, Dad grabbed a handsaw and disappeared into the woods. When we caught up, he was preparing to cut down a majestic oak. After we took away his saw, we offered this advice: Never pull or cut branches from live trees. Instead, collect wood that's already on the ground. Keep your fire small and use an existing fire ring. If there isn't one, build your fire on bare dirt, sand or gravel so it won't catch anything else ablaze.



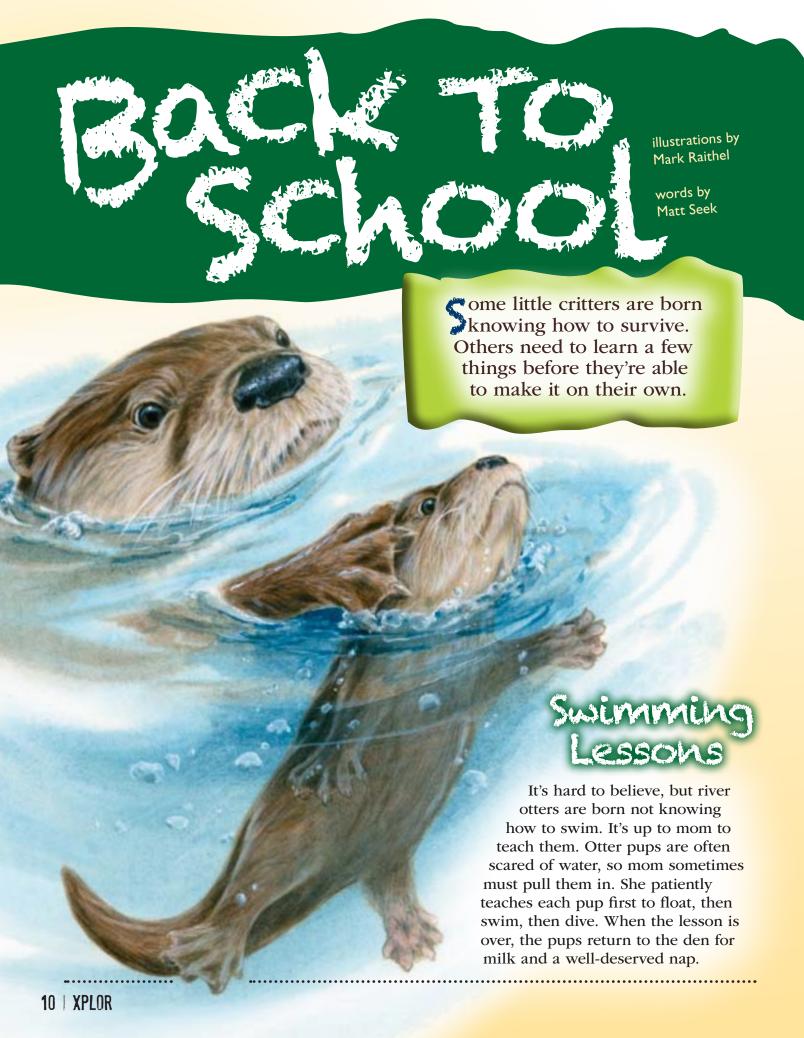
You're camping in nature's living room, after all, and critters make noise. Last, keep food and smelly stuff such as soap out of your tent. Even if the nearest bear lives miles away, "smellables" are an invitation to many furry creatures. Dad must have learned this the hard way, because about midnight I heard him yell, "Come out where I can see you, varmint!" I thought about going to see what had him riled up, but I snuggled back in my sleeping bag and fell asleep instead.

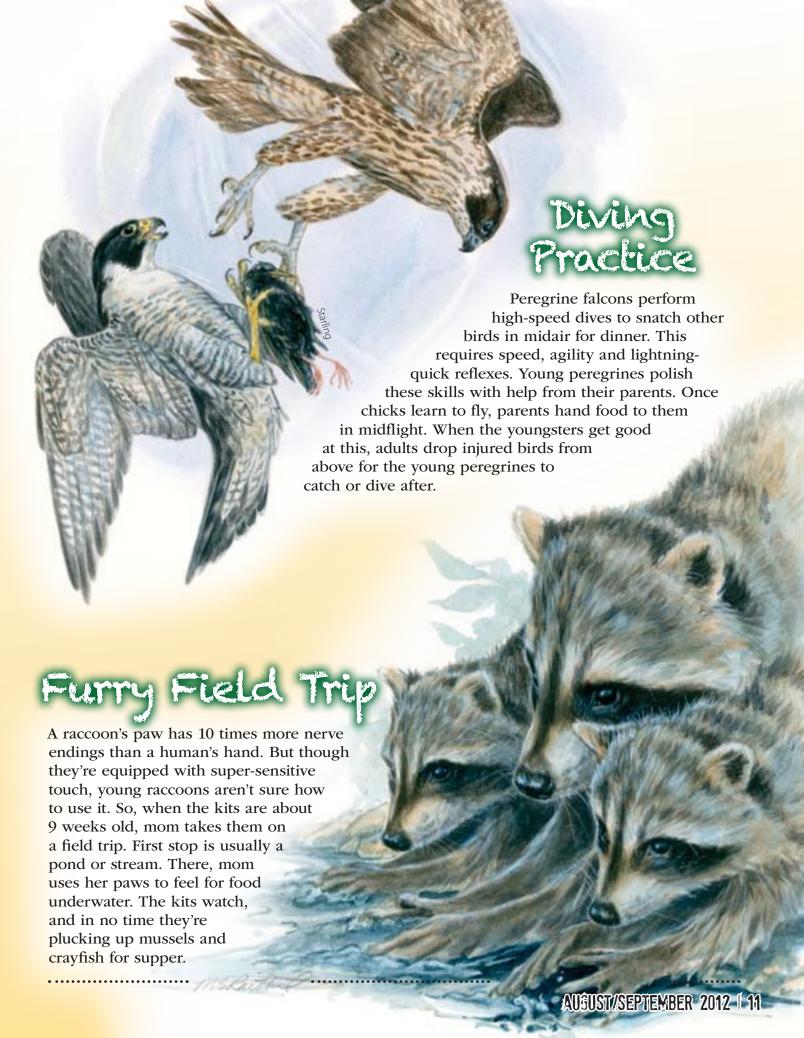


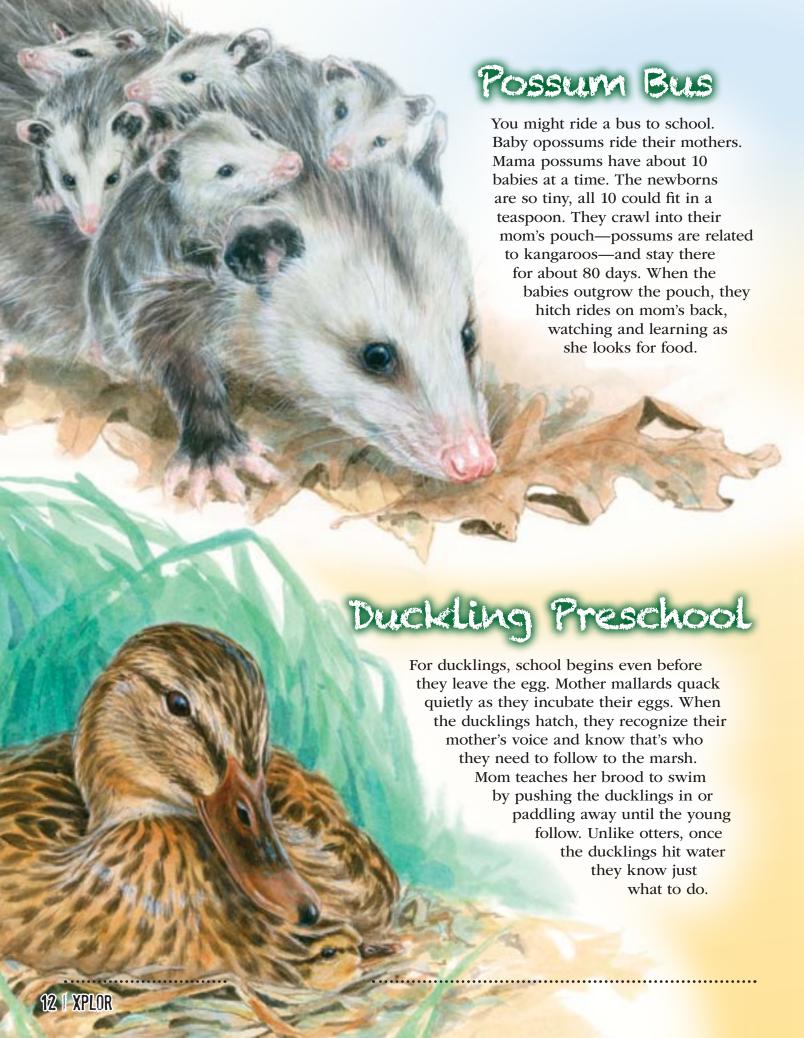
Leave No Trace

Dad sure is an early riser. When I woke at sunrise, he was already up. His eyes were bloodshot and he mumbled a lot. He felt better after breakfast, so we broke camp. When we leave a campsite, we don't want other campers to find anything but footprints. We scour the area for trash, and anything that won't burn, we pack out. We douse the fire with water, then feel for hot coals. When we're sure there are none, we scatter the ashes. On the hike out, Dad said, "You boys taught me a bunch. Think we could camp next weekend?" We told him we'd think about it.

For more Dad-proof camping tips, visit xplormo.org/node/3468.











Temperature decides whether SNAPPING TURTLES

will be born boys or girls. Turtle eggs kept around 75 degrees hatch as mostly males. Eggs kept below 70 or above 80 hatch as mostly females.



Any AMERICAN EEL found in Missouri is likely female. Baby eels are born in the Atlantic Ocean but swim into rivers to grow. Male eels stay close to coastlines, but females swim far upstream.

Who needs a thermometer when you have a CRICKET around? To tell the temperature, just count how many times a

cricket chirps in 15 seconds then add 37. The total will be within a few degrees of the actual temperature.



wishes for fishes, it plunges its beak underwater like a dip net. In a single scoop, the brawny-beaked bird can gather 3 gallons of water and several unlucky fish.

YOUR GUIDE TO ALL THE STUFF THAT GOES ON IN NATURE

Hey chubby cheeks, don't squeak with a full mouth.

EASTERM CHIPMUNKS

can cram nine acorns in their mouths—four in each cheek and one between their teeth.



CHIMNEY SWIFTS

use saliva to glue twigs together for a nest and keep it stuck tight to the inside of a chimney. Now that's some sticky spit!



When a PADDLEFISH goes for a swim, it really goes for a swim.

A paddlefish marked with an identification tag in South Dakota was found years later

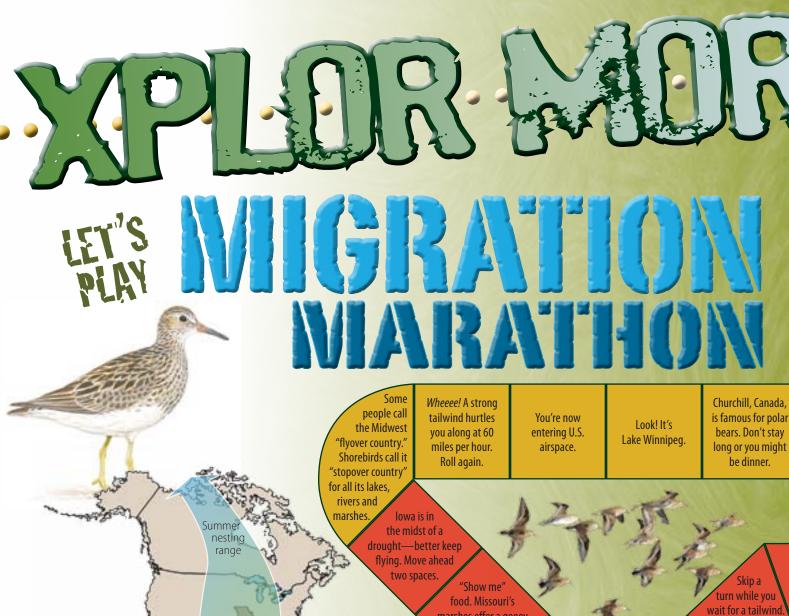
near Memphis, Tennessee. It had swum more than 1,200 miles!





often does a handstand and walks on its front paws with its tail held high. Don't say you weren't warned.





Wintering

range

MARATHON BIRDS

Pectoral sandpipers chase summer from one end of Earth to the other. In July, they nest in the Arctic. By November, they've hopscotched from mudflat to marsh, bog to beach all the way to South America. During their journey, sandpipers dodge predators, dangerous weather and destroyed habitats. They love to bury their beaks in mud—the greener and gooier, the better—to gobble insects, worms and other animals. The little birds don't know what will happen from one moment to the next, what adventures a new day might bring. In that way, they're a lot like us.

marshes offer a gooey stew of insects for you.

Whew! You're exhausted from flying. Skip a turn and rest.

and miles of **Eagle Bluffs Conservation Area** is a perfect place to refuel after a long flight.

You'll need it

Eat up.

All that's between

you and South America

are a few tiny islands

ocean.

to cross the Gulf

of Mexico.

HOW TO PLAY THE GAME

Gather three pennies and an assortment of small objects to use as tokens. Place a token for each player on the square marked "start." Take turns tossing the pennies, counting how many land heads up, and moving your token forward that many spaces. Don't forget to read what's printed on the squares. The first player to the finish wins.



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xplormo.org/node/2618

FREE TO MISSOURI HOUSEHOLDS





Giant swallowtails are Missouri's largest butterflies. They start life as caterpillars that look like bird droppings. Looking yucky helps the caterpillar avoid being eaten. If a bird figures out the disguise, the caterpillar waves a forked organ that resembles a snake's tongue. If that doesn't scare away the bird, the caterpillar sprays a stinky fluid.