Kids in Parks



Designing Self-guided Trails that Get Kids in Parks

Parks and Trails are Underutilized



In 2007 and 2008, the Blue Ridge Parkway conducted a Visitor Use Study and determined that only 7-12% of visitors to the Blue Ridge Parkway brought kids under the age of 15 with them.

Kids are Plugged-in



Kids spend an average of 7.65 hours per day plugged-in to electronic media.

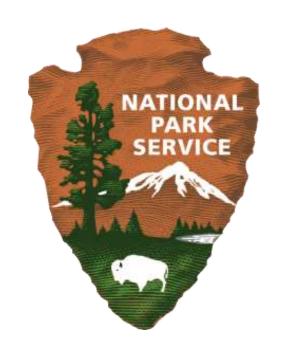
Disturbing Health Impacts



A myriad of negative heath effects have been linked to sedentary lifestyles, including: childhood obesity, hypertension, asthma, depression, ADD/ADHD, and more.

Founding Partners







Foundation

An independent livenesse of the Rive Cross and Rive Shield Association

In 2008, the Blue Ridge Parkway (NPS), the Blue Ridge Parkway Foundation, and the Blue Cross and Blue Shield of North Carolina Foundation partnered to form the Kids in Parks program, a program designed to get kids and families to utilize the trails on the Parkway for both their health and the health of our park.

With Guided Programs?



Only 4-8% of Parkway visitors reported attending ranger-led programs — YIKES! Budgetary restrictions and reduced staffing levels forced an alternative approach.

Introducing TRACK Trails



Kids in Parks provides a network of self-guided, brochure-led hiking trails designed for kids and their families called TRACK Trails.

Brochure-Led Discoveries



Each TRACK Trail trailhead has 4 different self-guided, brochure-led adventures. Brochures are used because they're cost effective per visitor contact, available 24 hours per day, provide take-home value, and are the most preferred and used form of visitor information.

Network of Trail Opportunities



www.KidsInParks.com



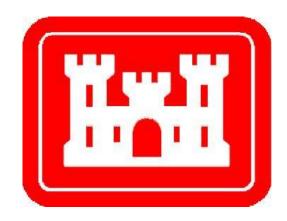


TRACK Trail locations are networked through the Kids in Parks program's website. Various social media outlets are used to connect users with trails and the program.

Linking Public Lands













Kids in Parks has been able to cross agency boundaries and link various types of parks and public lands.

Connect Community Partners











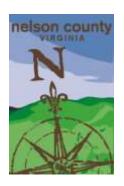












City/county parks departments, schools, universities, pediatrician offices, hospitals, corporations, foundations, private donors, and other groups have joined the Kids in Parks network of community partners.

Various Types of Trails



Biking



Citizen Science



Paddling



Geocache

In an attempt to reach people of varying ages and interests, Kids in Parks has opened several TRACK Trails that utilize various forms of outdoor recreation.

Provides Incentives for Participation

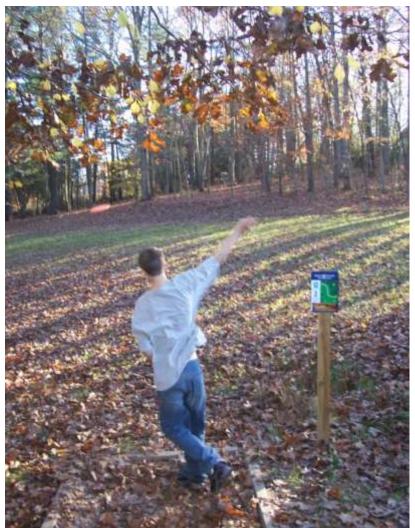




Kids earn prizes for registering their adventures through the Kids in Parks website. In order to earn their prizes, kids answer 12-15 questions about their experience, providing Kids in Parks and their TRACK Trail partners with valuable data.

FUN!





Kids just want to have "FUN!"

Brief History

1st TRACK Trail – August, 2009



The first TRACK Trail opened on the Blue Ridge Parkway at the Asheville Visitor Center on August 29th, 2009.

Gateway Trails









In 2010, Kids in Parks began installing "Gateway Trails" in communities along the Blue Ridge Parkway, creating a network of trail opportunities for kids and families in the region. The first gateway trails were installed at Chimney Rock State Park and Pisgah National Forest.

Building The Network of Partners









The Kids in Parks program continued to expand their network of "Gateway Trails" into communities along the Parkway by installing TRACK Trails in City/County Parks, Virginia State Parks, an Army Corps site, and on schools and private property.

Proof of Concept



TRACK Trail Growth by Year

2009 – 1 TRACK Trail

2010 - 5 TRACK Trails

2011 - 11 TRACK Trails

2012 - 40 TRACK Trails

2013 - 80 TRACK Trails

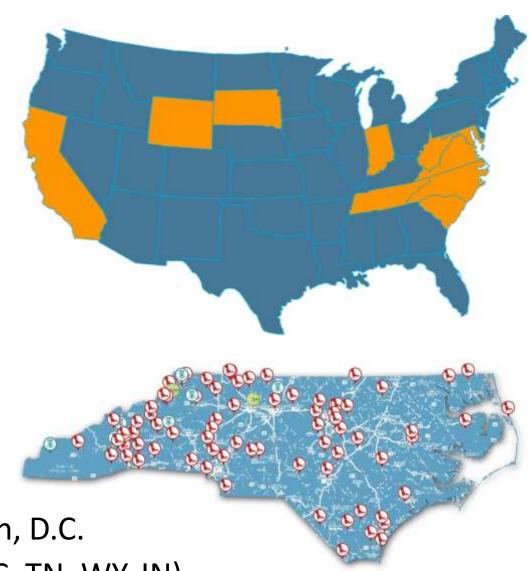
2014 – 106 TRACK Trails

2015 - 135 TRACK Trails

2016 – 148 TRACK Trails

2017 - 165 TRACK Trails

2018 – 166 TRACK Trails



In 10 States and Washington, D.C. (NC, VA, SD, MD, WV, CA, SC, TN, WY, IN)

There's a TRACK Trail at the White House!



Results to Date

Health of Kids and Families

2009	2010	2011	2012	2013	2014	2015	2016	2017	Total
53	217	259	278	568	1,501	2,312	2,808	4,140	12,136

as of 12/31/2017

Online registration data collected since 2009, in conjunction with several on-site observation studies conducted with local universities, suggests that:

400,000 kids have hiked TRACK Trails
410,000 miles have been hiked by kids on TRACK Trails
200,000 hours active outdoors by kids on TRACK Trails
60 million calories have been burned by kids on TRACK Trails

Kids don't come alone! The average group size is 3.43 people. When we add in the family members and friends who also hiked TRACK Trails, the overall health-based outcomes are even greater:

800,000 people / 820,000 miles / 410,000 hours / 120 million calories

Overall Park Health Data

The health of our parks and public lands are improving as well:

11% of KIP registrants were first-time hikers

54% of KIP registrants were first-time visitors to the park

52% intentionally visited the park to hike the TRACK Trail

47% returned for a second adventure (Return Rate)

88% of returnees visited more than one TRACK Trail



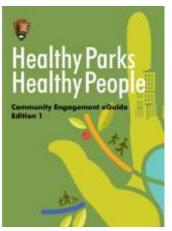


Endorsements and Awards











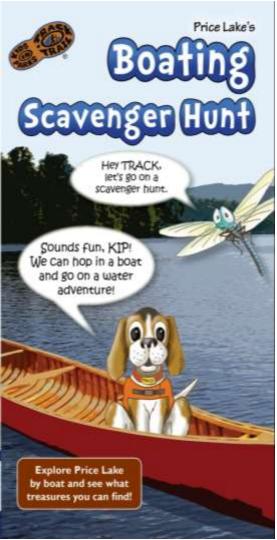


In 2012, Kids in Parks earned the "Let's Move! Champions of Change" Award from the White House. The program has also been endorsed by the American Academy of Pediatrics, highlighted in the NPS HPHP catalog, mentioned in a report released by the U.S. Surgeon General, reviewed as a "practice-tested intervention" by the Center for TRT, and earned an Outstanding Public Engagement Award from the APPL.

Designing Self-Guided Kid Friendly Materials

Use Mascots

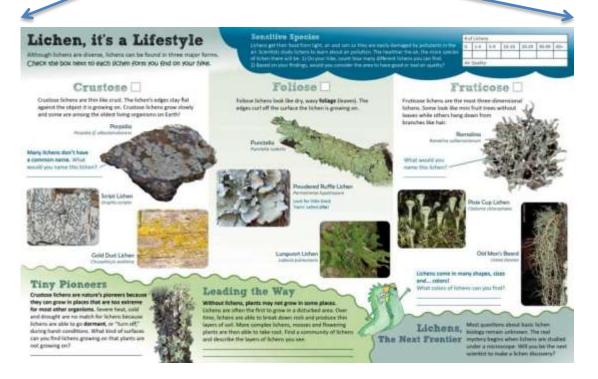


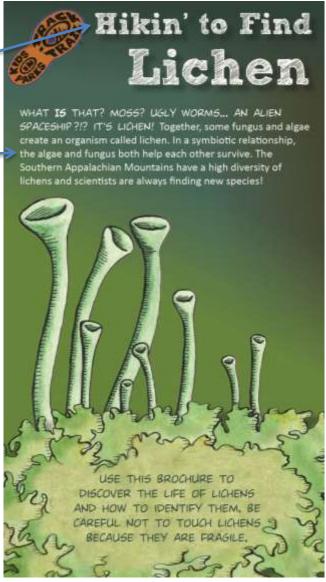


The Kids in Parks program uses two mascots (TRACK the dog and KIP the dragonfly) that lead many of the brochure-led activities.

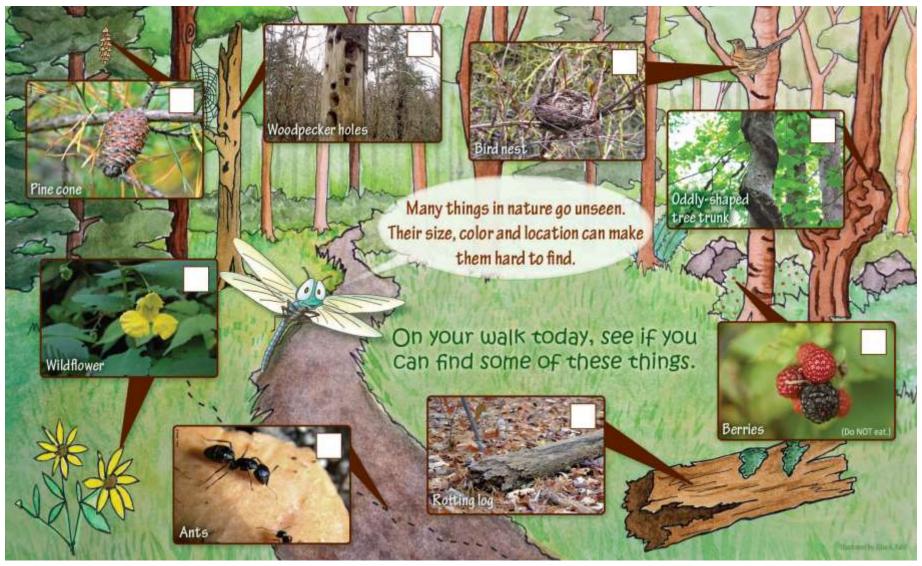
3-30-3 Rule

- ~ 3 second message
- ~ 30 second message
- ~ 3 minute messages





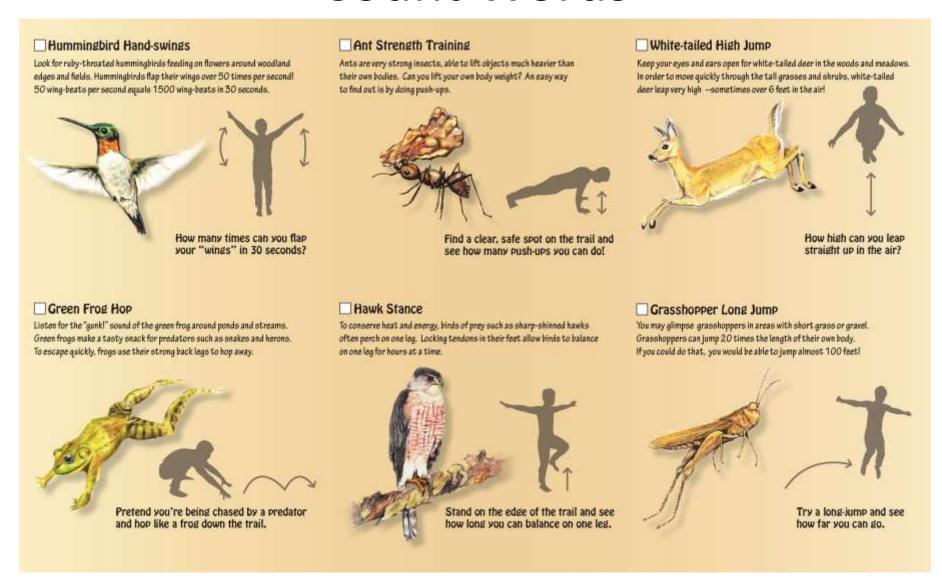
Use Bright Colors



This brochure was designed for younger kids.

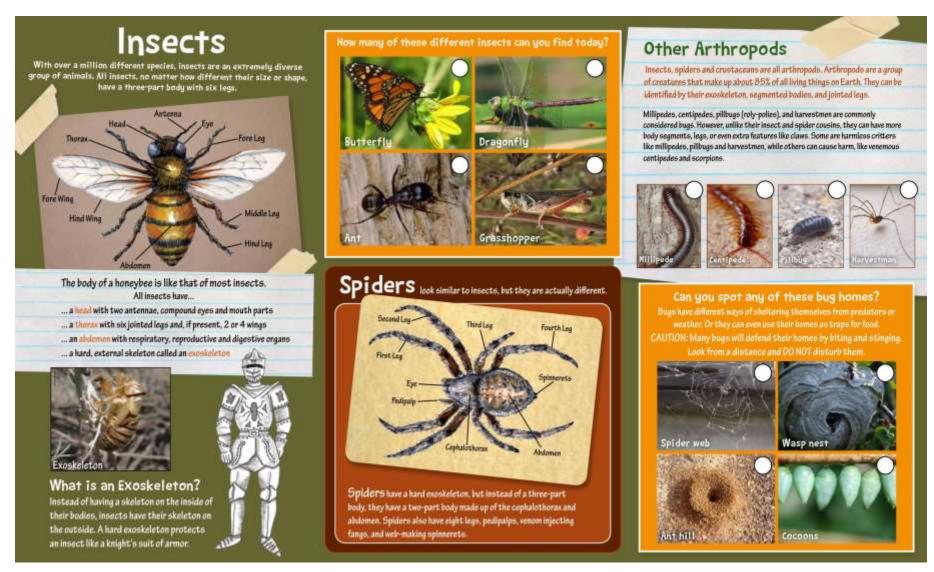
Use bright, saturated colors. Illustrations mixed with pictures. Limited text.

Count Words



This brochure encourages kids to mimic animal movements and exercise on their hike. People don't like to read. Try to keep your word count to 50 words or less per text block.

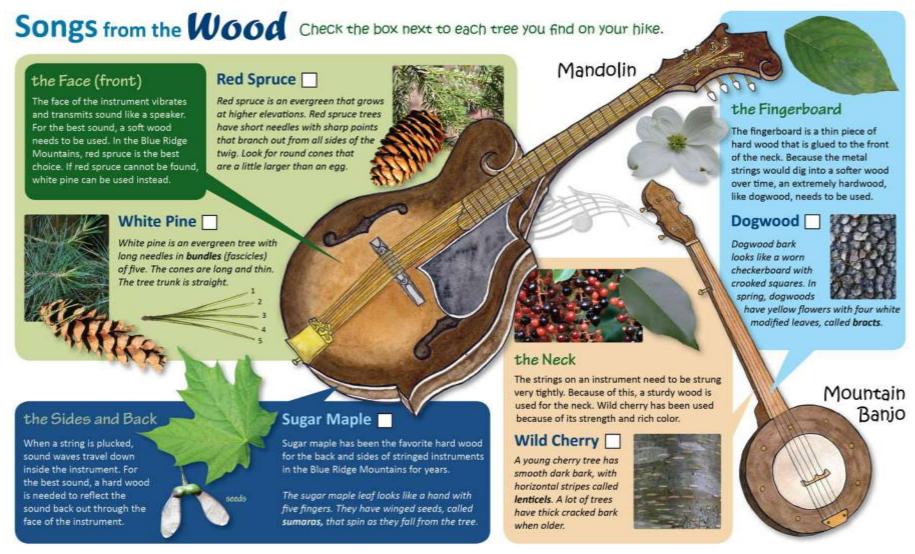
Group Information



This brochure teaches kids about insects, spiders and other "bugs".

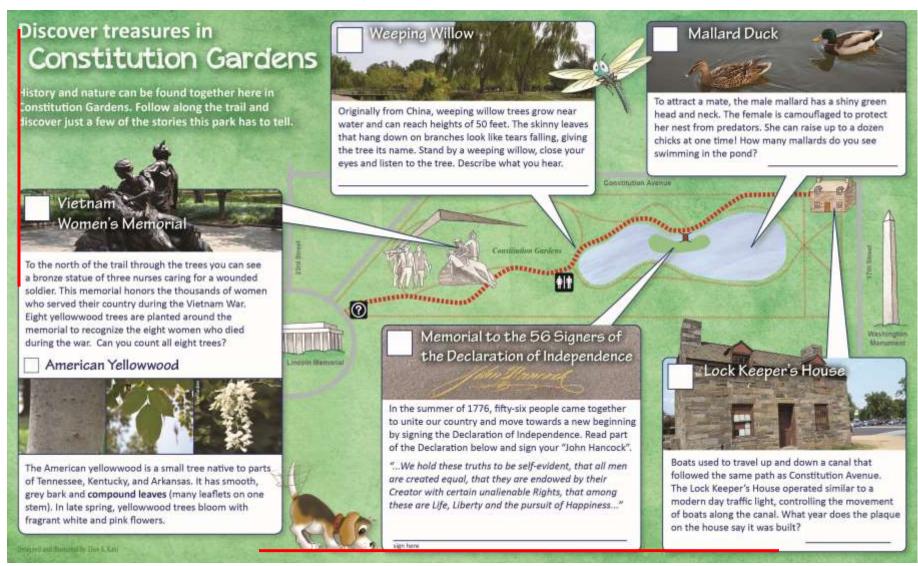
Think about the proximity of information and graphically grouping information.

Break Borders



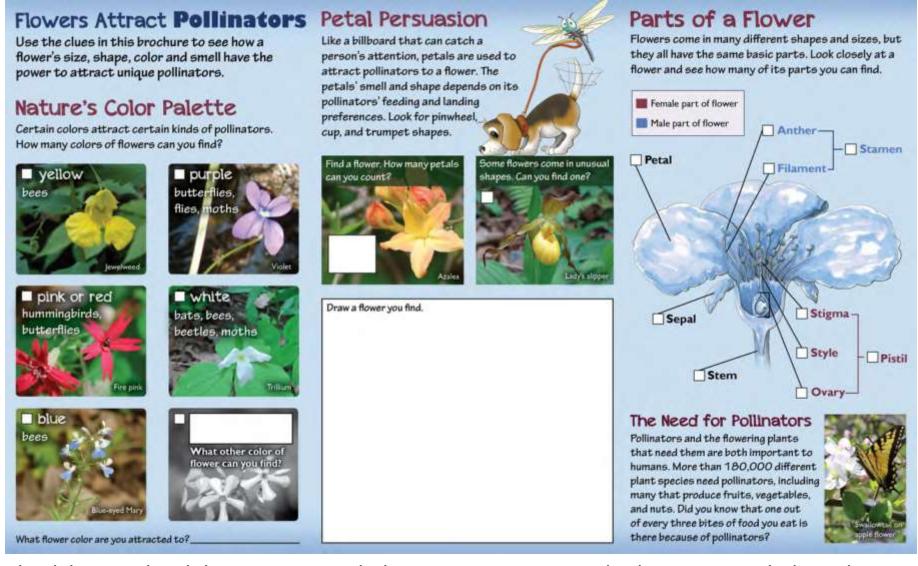
This brochure teaches kids how trees found along the trail are used to make instruments. Break the borders with your graphics.

Align Features



Site specific brochures are a great way to connect kids with specific locations along the trail. *Align text blocks, gator boxes, titles, etc. for a cleaner look.*

Make it Interactive



Check boxes, sketch boxes, open ended questions, games, and other activities help make your brochure interactive and keep users engaged.

Steps to Designing a Brochure

Site Visit



Walk the trail with the staff to determine stops, topics, and potential points of interest for kids and families.

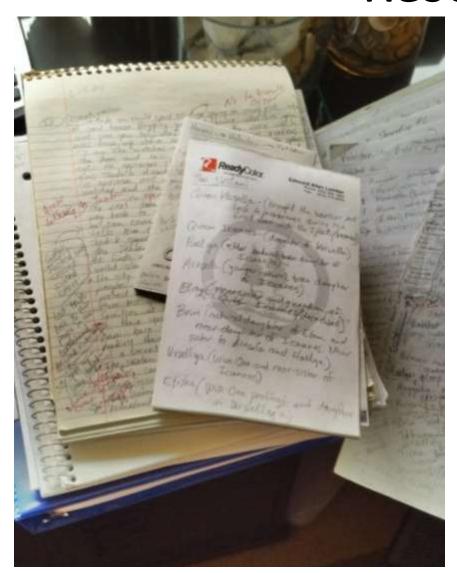
Determine Your SAP

S - Subject A - Audience P - Purpose



What is the self-guided trail going to be about? Natural resources, history, culture, etc. Who is your target audience? Age range, visitors, locals, special needs, etc. What is the purpose of your trail? Education, interpretation, citizen science, etc.

Research





Compile research about the various topics identified during the site visit. Conduct another site visit to determine if anything of interest may have been missed.

Text Writing

COVER
Just like the animals that live in this forest, people can use their senses to learn about their
environment. Humans have five major senses that we depend on – sight, hearing, touch, smell, and
taste. Use your senses and your creativity to discover what this forest is like for a few of the plants and animals that live here.
animals that live here,
Activities
Box Turtle
Imagine Wwhat would it it would be like to live an inch off the ground? Box turtles are omnivorous, meaning they will eat just about anything – from fruits to mushrooms to plants. Get down on all fours,
and with your chin almost touching the ground, look around. What do you see, smell or feel that you didn't notice before?What Do you see anything a box turtle might eat?
Deer
Whitetail deer call this forest and most of Shenandoah home. They find many different kinds of food in
the forest and use the trees to hide from predators. A deer's big ears catch sound like a baseball glove
catches a ball. Cup your hands and make deer ears. What can you hear around you? Can you hear
better with bigger "deer ears"? How do large ears help a deer survive?
(possibly add a sound map)
Life on a rock
Rock surfaces can be mini-worlds unto themselves! Check out these rocks. How many different things
are on the rock? Look for different colors, shapes and forms, and growth patterns to help identify the
differences Gently touch the lichens and feel the mosses. How do they feel? Is the rock
habitat warm, cool, dry, or moist? What would it be like to be a small insect and live on this rock?

The themes, subthemes, and potential activities / stops should help drive the text writing process. Text should be written prior to graphics being created.

Draft Mock-Up

"If I was an animal living at Shenandoah National Park..."

Use your senses and your creativity to discover what this forest is like for the plants and animals that live here. Activities can be done anywhere on the trail except the two that are labeled on the map.

Box Turtle

Imagine what it would be like to live an inch off the ground! Box turtles are omnivorous, meaning they will eat just about anything – from fruits to mushrooms to plants. Get down on all fours, and with your chin almost touching the ground, look around. What do you see, smell or feel that you didn't notice before? _____ What do you see anything a box turtle might eat? _____

Bear's Nose

Black bears have a strong sense of smell. Find a comfortable spot and smell everything around you. How many different smells do you smell? _____ With your eyes closed breathe in deeply through your nose. Now what do you smell? _____ Which direction is each smell coming from? _____ If you were a bear, how would you use your sense of smell? _____



Squirrel Climber

With small sharp claws, squirrels are excellent at climbing trees. Find a tree you can walk up to without trampling any plants on the ground. Look at the tree – its bark, limbs, leaves, color. Touch the tree – is it smooth, rough, slick, course, hard or soft?

Then, find a second tree that looks completely different. As a squirrel, which tree would be easier to climb to escape a predator? Why? ____

poison ivy warning

Snag

Nature is constantly changing. Decades ago this forest was shady, moist and cool year-round because it was filled with giant eastern hemlocks. An insect, called the woolly adeigid, was accidentally brought to North America and has killed most of the old hemlocks in Shenandoah. Look for "skeletons" of dead hemlock trees along the trail. There are still some young hemlocks that are growing, so maybe one day the hemlock forest will return. Draw a picture of what you think the forest will be like the next time you visit.

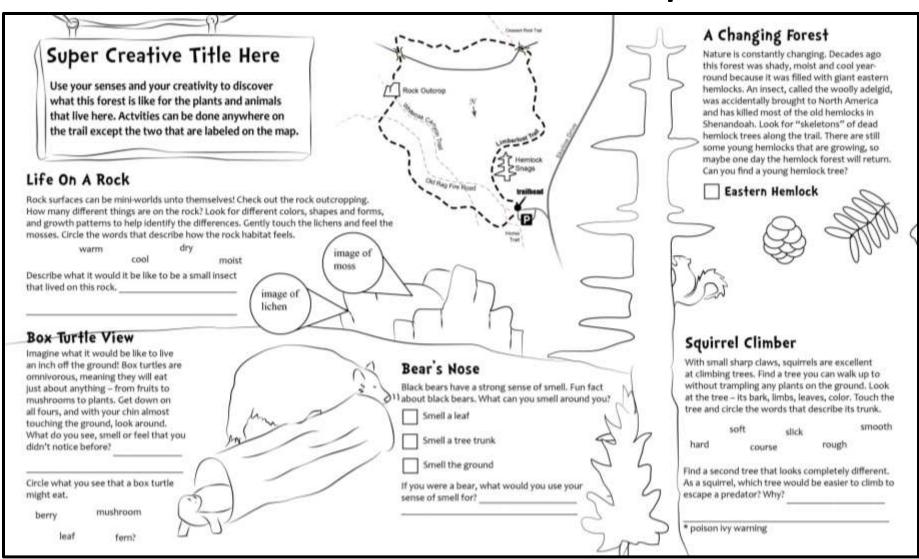
Life On A Rock

Rock surfaces can be mini-worlds unto themselves!
Check out these rocks. How many different things are on the rock? Look for different colors, shapes and forms, and growth patterns to help identify the differences.
Gently touch the lichens and feel the mosses. How do they feel? Is the rock habitat warm, cool, dry, or moist?

What would it be like to be a small insect and live on this rock?

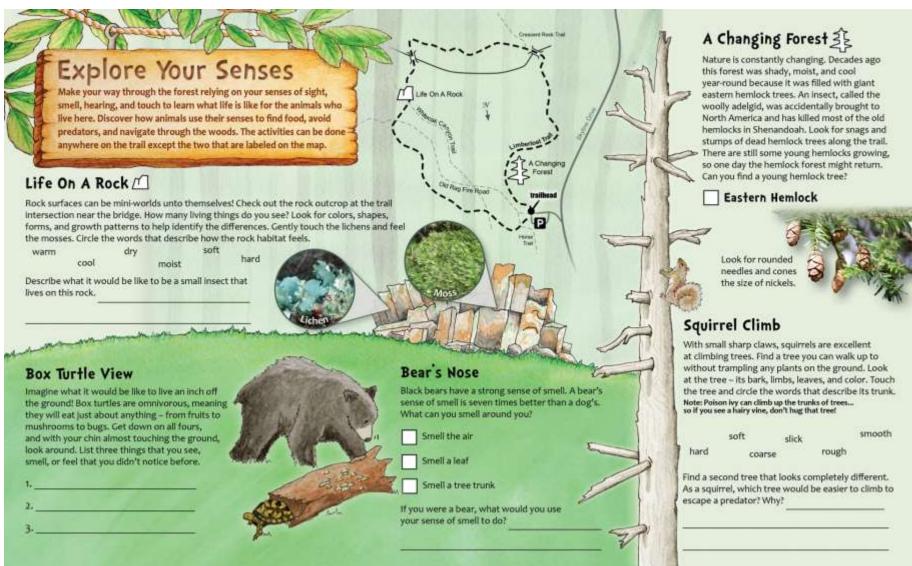
Create a draft mock-up to determine text size and general placement. You'll probably need to reduce the amount of text you have!

Advanced Mock-Up



Create a more advanced mock-up with tentative graphic concepts and placement. Approve advanced mock-up prior to having finalized illustrations completed.

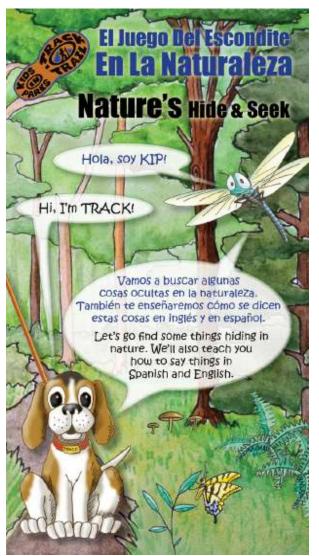
Final Brochure



Finalize the brochure!

Designing Bilingual Brochures

Bilingual Brochures

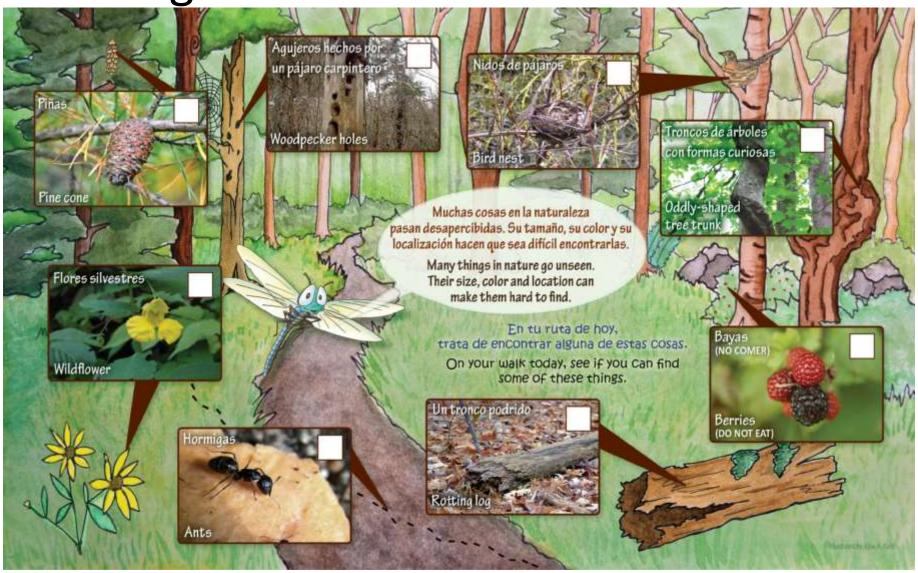




Work with a trusted source for your translation!

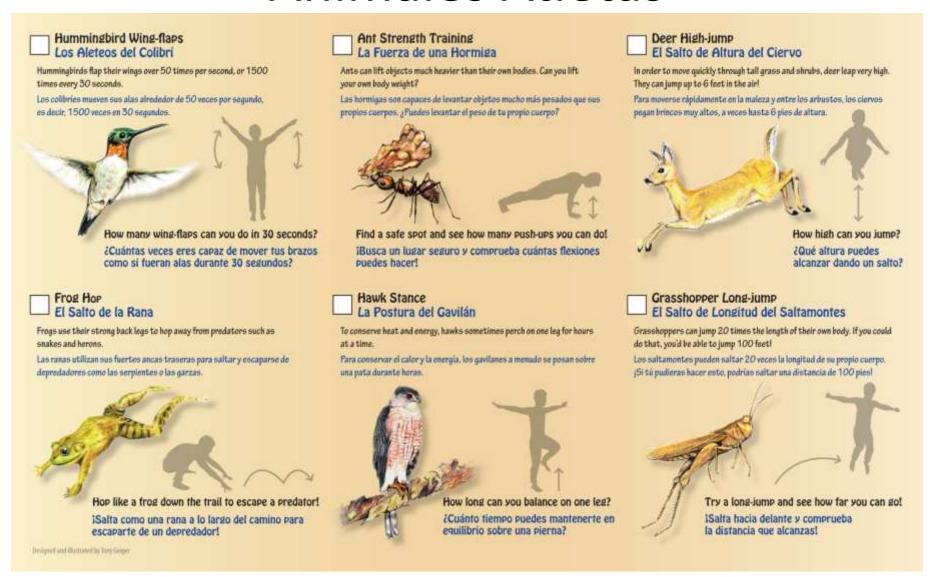
Use different colored text to differentiate which sections are for which readers.

El Juego de Escondite en la Naturaleza



This brochure allows users of either language to learn words in English and Spanish. Keep the English and Spanish text in consistent locations for ease of use.

Animales Atletas



This brochure allows users of either language to learn words in English and Spanish.

If using both English and Spanish text, reduce the size of the word count to avoid overcrowding.

Cherokee Syllabary

☐ Tulip Poplar IrG



Growing straight and tall with light gray bark and a large broad leaf that looks like the tip has been bitten off, the tulip poplar is easy to find. The flowers of the tulip poplar are an important source of nectar for honeybees. Due to their large size, tulip poplar logs were often used by the Cherokee to make canoes. The Cherokee also used tulip poplar to heal wounds and cure digestive problems.

Sourwood OhAcO(G)



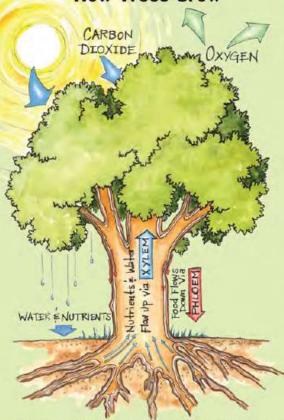
The sourwood tree has chunky bark and clusters of tiny white flowers in the spring. Sourwood bark was used by the Cherokee to treat diarrhea, and the straight twigs were used to make arrows. In one Cherokee legend, the daughter of the Sun was killed by a magic rattlesnake, and seven men retrieved her from the underworld by touching her with sourwood twigs and bringing her back to life.

■ Rhododendron S&S JOWO



Rhododendron is a small evergreen tree that grows well in the shade. The dark green leaves are long and skinny with a smooth, leathery feel. In the summer, rhododendrons blossom with beautiful pink or white flowers. To treat joint pains, the Cherokee would scratch a patient's skin and then apply a tea made from rhododendron and similar plants.

The Need to Know How Trees Grow



Plants and trees have the ability to make their own food in a process known as photosynthesis. They do this by sucking water and nutrients from the soil up through their xylem and into their leaves. The water and nutrients are combined with carbon dioxide and sunlight to make a sugary food called glucose. This food then travels down through the phloem to the rest of the tree, so it can grow.

(Harriston by Good Williams, Wooder & Works

Cherry Birch DL DARY EOF



Cherry birch got its name because the bark of young trees looks like the bark of a cherry tree, with horizontal stripes called lenticels. The leaves have serrated (saw-toothed) edges, and the shoots have a wintergreen scent. The Cherokee used birch to make a pleasant tasting tea that they drank for enjoyment and to settle the stomach.

Sassafras OOOLh



The sassafras is a small tree that can be identified by its three distinct leaf shapes (entire, mittened and three-lobed). The fruits of the sassafras are eaten by many different birds. Sassafras tea was a favorite beverage of the Cherokee due to its great taste and the belief that it cleansed the blood. The bark and leaves were chewed and the spit produced was rubbed on spider bites.

Red Maple JGY YSP(T) DHIODY

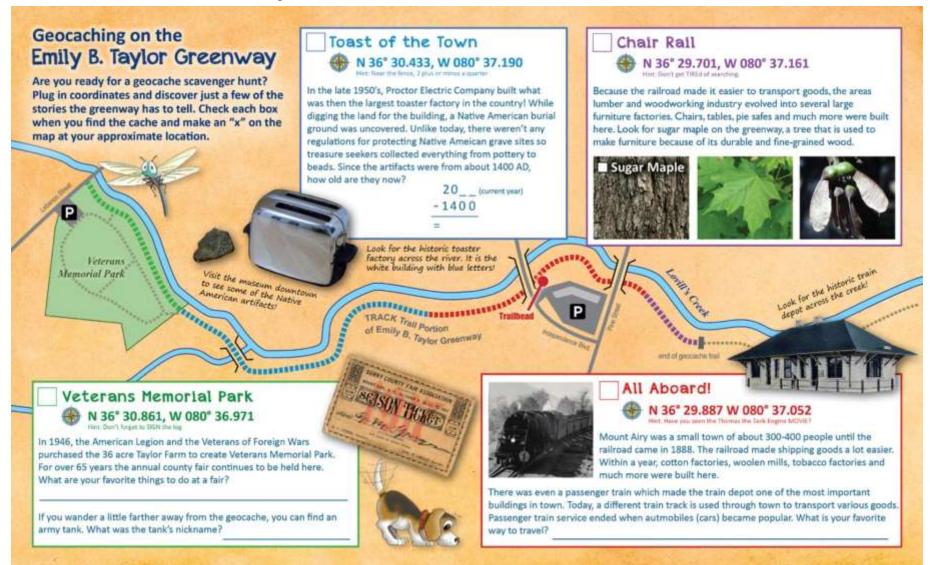


Able to grow in almost any soil condition, the red maple is one of the most abundant and widespread trees in eastern North America. With red twigs, buds, flowers and seeds, it's easy to see how the red maple got its name. In the fall, the leaves also turn a brilliant red color. The Cherokee boiled the bark of the red maple and used it to treat eye problems.

This brochure teaches Cherokee children their culture's written language. Work with translators to ensure accuracy.

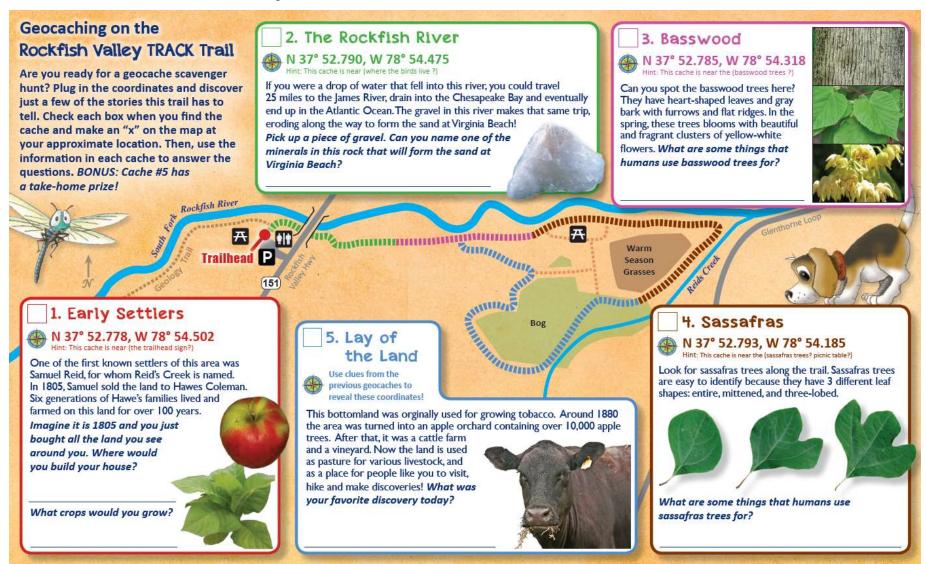
Technology-Based Brochures

GPS / Geocache Brochures



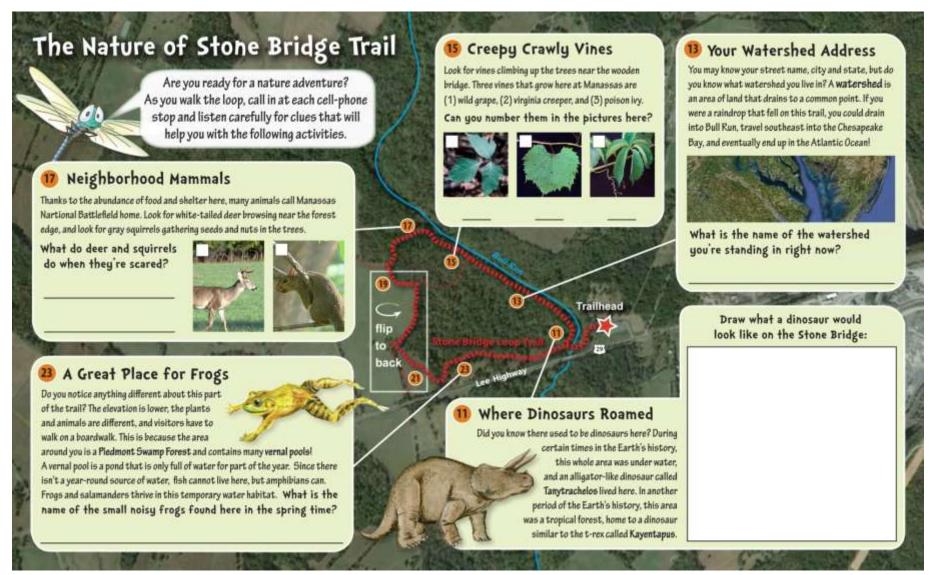
This brochure encourages the use of a GPS or smart phone to find specific locations on the trail. Use color-coded "sections" to associate the text blocks with regions of the trail.

GPS / Geocache Brochures



This brochure encourages the use of a GPS or smart phone to find specific locations on the trail. Users have to find the first four caches in order to get the coordinated for the 5^{th} cache.

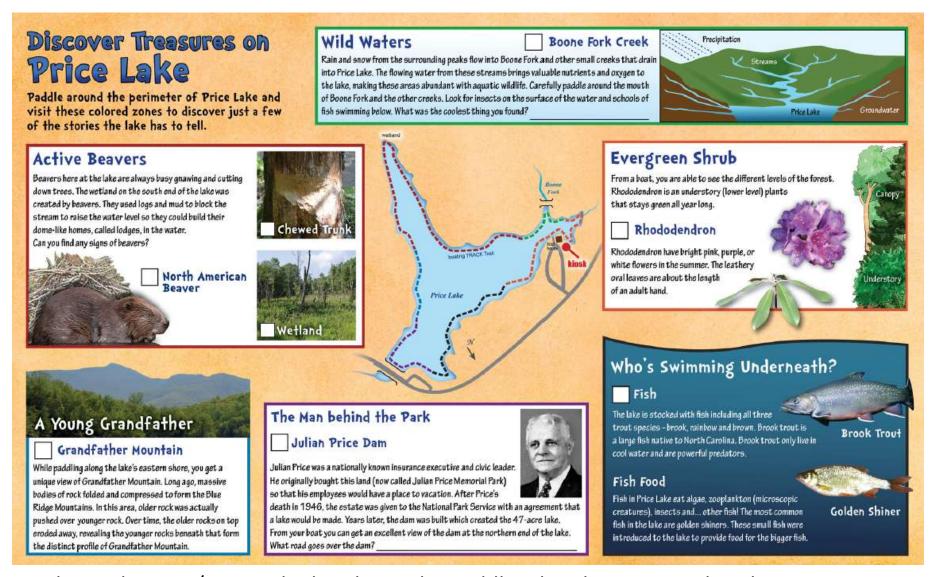
Cell Phone Brochure



Users call a 1-800 number and enter their "stop number" to listen to a message about that stop. *Create activities that expand upon the interpretive recording they listened to.*

Paddling Trails

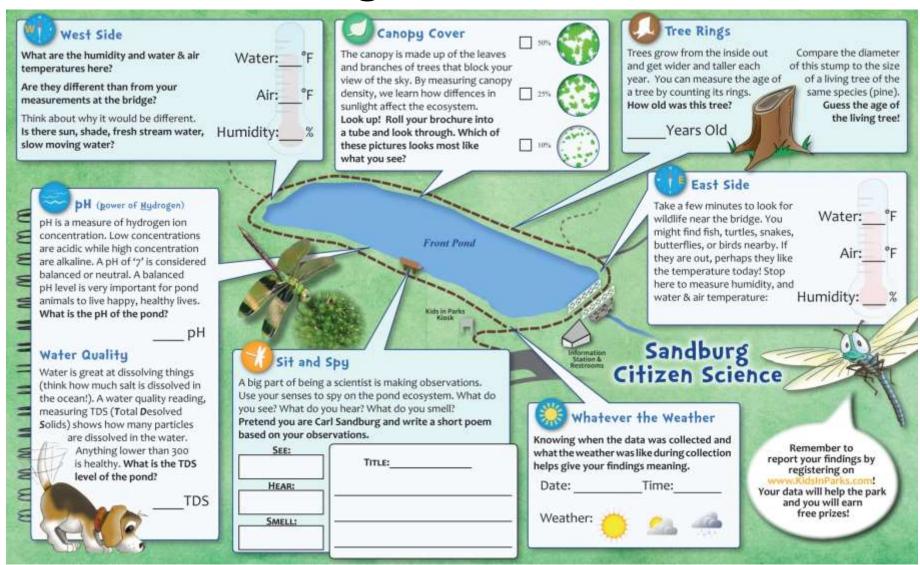
Price Lake Canoe Trail



Similar to the GPS / Geocache brochure, the paddling brochure uses colored zones to connect content with specific regions around the lake.

Citizen Science Brochures

Carl Sandburg National Historic Site



Activity stations around the lake have scientific equipment visitors can use to take measurements and complete the activities in the brochure.







School-based Curriculum Brochures

Soil Science – 1st Grade



The Digging Detectives brochure aligns with NC curriculum standards for students in the 1st grade.

Soil Science – 1st Grade



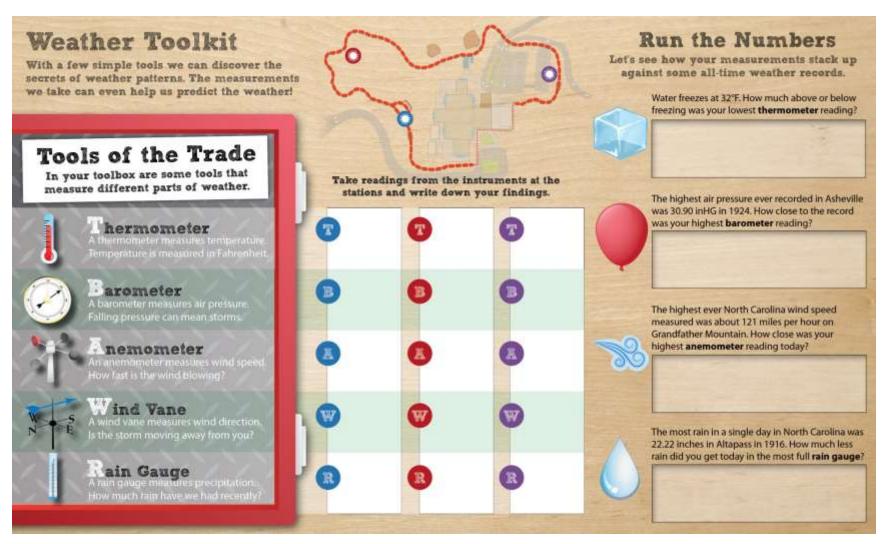
In this brochure, students analyze a scoop of soil and determine its contents.

Weather Science – 2nd Grade



The What's the Weather brochure aligns with NC curriculum standards for 2nd grade students, and teaches them how to use basic weather recording equipment.

Weather Science – 2nd Grade



Students visit three observation stations to record data, think about how their data stacks up against historic weather readings, and form hypotheses about their findings.

Signed Interpretive Trails

Aquatic Discovery Station



The Life in a Mountain Stream aquatic discovery station sign was installed on a unique aquatic-themed sign base.

Aquatic Discovery Station

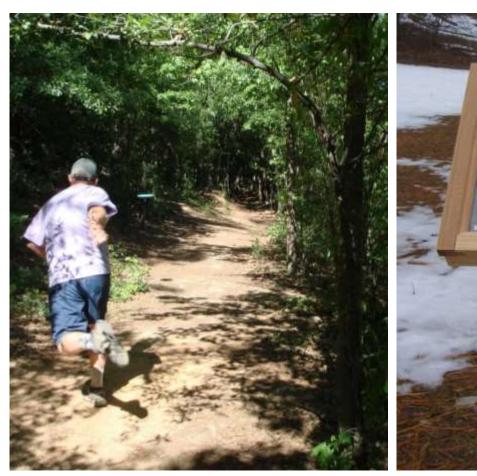




The box at the station contains nets, buckets, magnifying lenses, and field guides that allow kids (of all ages) to explore and learn about critters that live in the stream.

Nature Trail Disc Golf Course Materials

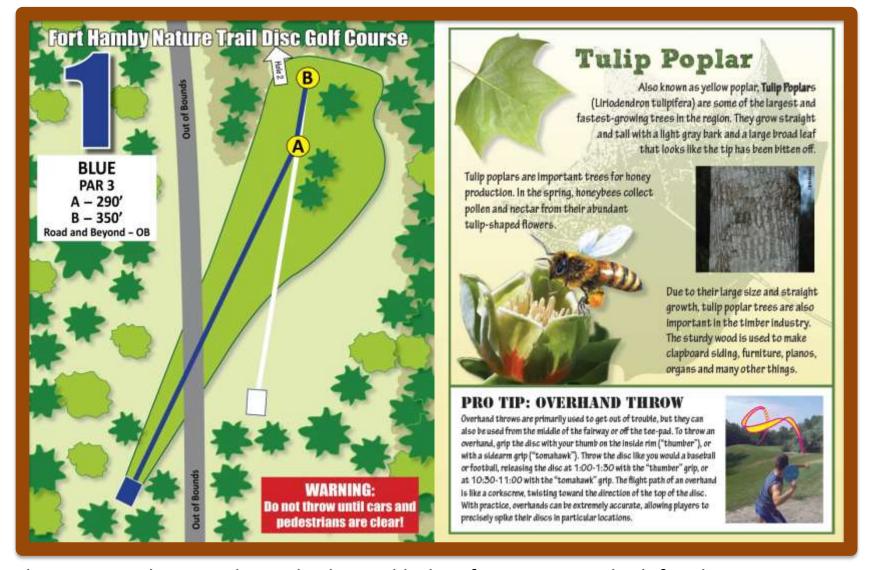
Nature Trail Disc Golf Courses





Since disc golf is essentially a "hike with a frisbee", Kids in Parks uses the sport to reach the teenage / young adult population. Their Nature Trail Disc Golf Courses are provide interpretive information on the tee-signs and scorecards, allowing the player to learn about nature while the play.

Interpretive Tee-Signs



The tee-signs have traditional rules and hole information on the left side. An interpretive message and "pro-tip" are included on the right side.

Field Guides / Scorecards





The scorecards have traditional scorecard information on one side.

The other side serves as a field-guide for local species that are commonly found at the course.

Greenway Bike Trails

Salem Lake Greenway

TO THE SALEM LAKE BIKE TRACK TRAIL

The Salem Lake Bike TRACK Trail features nine stations around the seven mile lake loop. Each station has a sign with interpretive information about the plants and animals that make Salem Lake their home, as well as some information about the value of the lake and why it's important to keep it clean. You will also find tips to improve your biking skills. In addition, each sign contains a secret code letter at the bottom right corner. Kids can register their rides on the trail at kidsinparks.com to earn free bicycle gear. Remember the code letters and un-scramble them to enter the code word on the website and win a special prize!



Salem Lake and the surrounding lands and streams draining into the lake are part of the Salem Lake Watershed. This watershed provides habitat for wildlife, recreation opportunities for people, and a water supply for the city of Winston-Salem.

Cycling Tips: Pre-flight Check

Doing a quick equipment check before every ride can help save you time and injury. Be sure to check yourself, your gear and your bike to make sure you're ready to ride the trail.



PADS AND GLOVES AND BARS Spills and crashes are a part of biking. Pads

a part of biking. Pads and gloves can help save your skin. handlebars and headset are tight and that your brakes world

WHEELS AND TIRES Make sure your

APPROPRIATE

FOOTWEAR

Wear sturdy shoes that

wheels are bolted on tight and that your tires are properly inflated (within the inflation range shown on the tire).

The Salern Lake Dike TRACK Trial was made possible through partnerships formed because the Winston-Salern Eccretion and Parks Department, the Blue Bidge Parkway Foundation's Rids in Parks program, and the general support of the Following princes dozons and businesses:



cover your toes.



RevCons Bluetticks of North Continu Propelative



kidsin parks.com

Look for code letters HERE

The Salem Lake Greenway has 9 interpretive panels along the 7-mile long trail.

Interpretive Stops

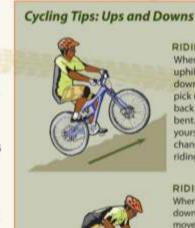
TRIBUTARY TRAILS

A tributary is a small river or stream flowing into a larger river or lake. This stream is one of nine tributaries that drain into Salem Lake. Try to find them all as you ride around the trail!



A TRAIL TO THE OCEAN

Did you know the water flowing over the dam at Salem Lake could eventually wash up on the beaches of South Carolina? Here's how: Salem Lake drains into Salem Creek (A), which is a tributary of the Yadkin River (B), The Yadkin River flows into the Pee Dee River in Uwharrie National Forest (C). The Pee Dee River flows into the Great Pee Dee River in South Carolina (D), which drains into the Atlantic Ocean about 30 miles South of Myrtle Beach (E).



RIDING UPHILL When approaching an uphill section of trail, gear down and pedal hard to pick up speed. Keep your back straight and elbows bent. Try to avoid lifting

yourself off of the seat or changing gear while riding uphill.



RIDING DOWNHILL

When approaching a downhill section of trail. move back on the seat, keep your elbows bent and your body low. Your legs should be relaxed and ready to absorb bumps. Use only the rear brake on downhills. until you are comfortable. enough with your balance to apply front and rear brakes evenly.

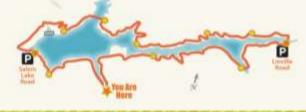
If you were a drop of water flowing over the dam at Salem Lake, you could travel 18 miles along Salem Creek, 82 miles along the Yadkin River, 30 miles along the Pee Dee River, and 140* miles along The Great Pee Dee River to reach the ocean. How many total river miles would it be to the ocean?



total river miles. 18 + 82 + 30 + 140 =

*numbérs are approximate

kidsinparks.com



Code Letter T

To encourage kids to stop and read the signs, we put a "code letter" in the bottom corner. Kids can collect all the code letters, to unscramble the code word and earn a special prize.

A wetland is an area of land that is saturated with water Cycling Tips: Straight and Narrow permanently or seasonally. There are many wetlands around Don't end up in the water! Your bike Salem Lake. Notice the different grasses and plants growing in will tend to go in the direction you are looking, so on narrow sections the wetlands. These plants and their roots help to absorb and of trail it is important to look filter water as it drains into Salem Lake. Wetlands also provide straight ahead and stay to the center if possible. When important habitat for animals such as dragonflies, frogs, and birds. approaching a section of trail with obstacles such as rocks How many of the following animals and plants or logs, slow down and make sure you can see a clear path can you find in the wetlands around the lake? before proceeding. Mountain bikers call this "finding your line." The blue dasher is a common Cartails provide a hiding place The green from tays its eggs in for animals and their roots help dragonfly that catches smaller wetlands. Green frogs are eaten insects flying in the wetlands. clean pollutants from the water. by fish, herons, and water snakes. Water snakes are not venomous. Wood ducks are very shy and like They hunt for frogs and small fish to Nide in wetlands. They dabble in the wetlands. in the water for algae to eat. kidsinparks.com

In addition to the interpretive information on each panel, we included a "cycling tip" to teach skills and encourage safety.

Pump TRACK Trails

Rocky Knob Bike Park



A pump track is a BMX style course with rollers, berms and other obstacles. The goal is to ride around the entire track without pedaling.

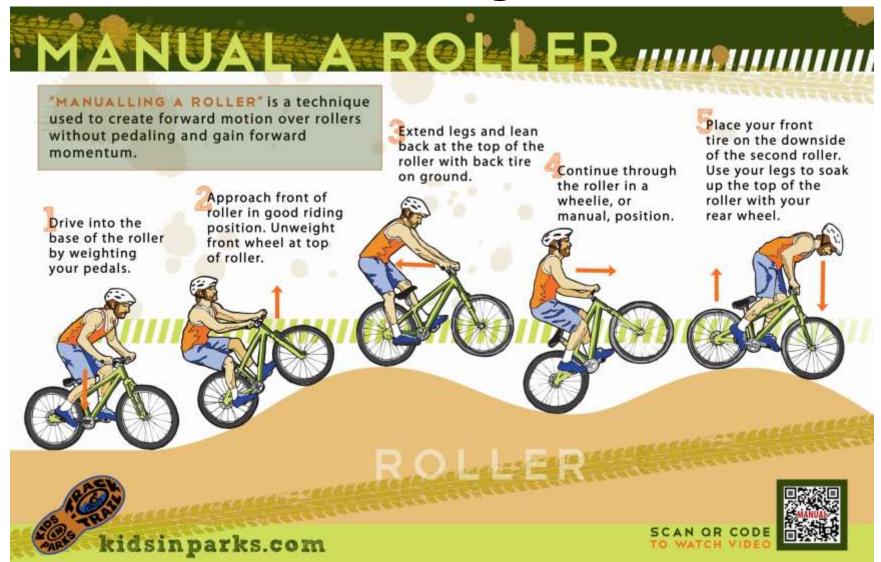
Rocky Knob Bike Park





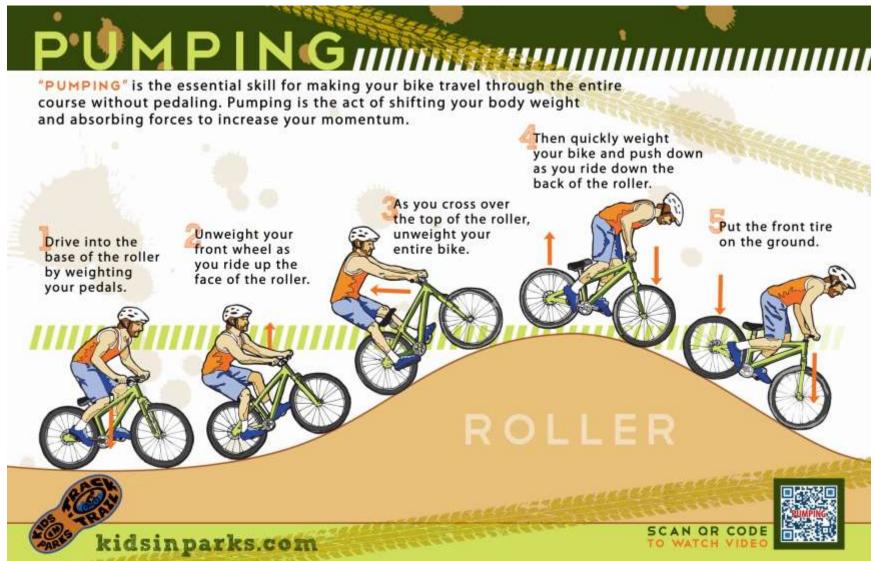
The educational signs placed around the pump track teach bike handling skills. By learning proper bike skills, kids will be more successful and have more fun!

Skills Signs



QR Codes link to YouTube video featuring a pro rider teaching the skill.

Skills Signs

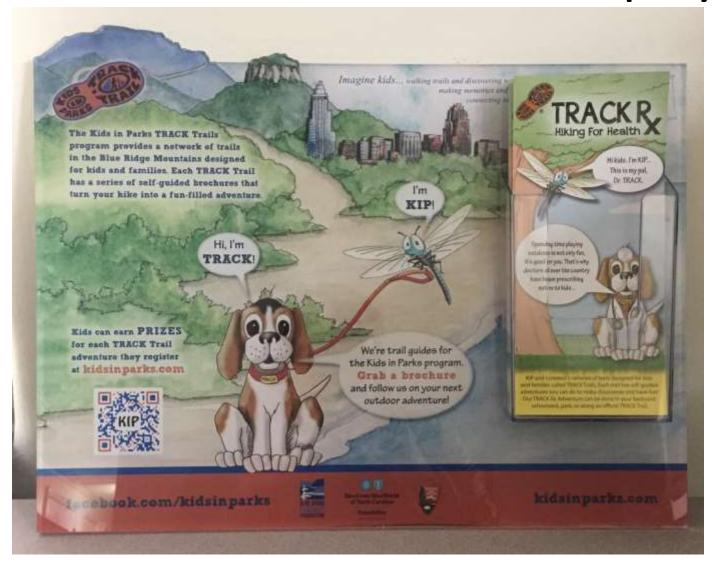


Being designed for teenagers, the graphics were designed to be a little more "sporty".

TRACK Rx

(Our Version of Park Rx)

TRACK Rx – Pediatrician Displays



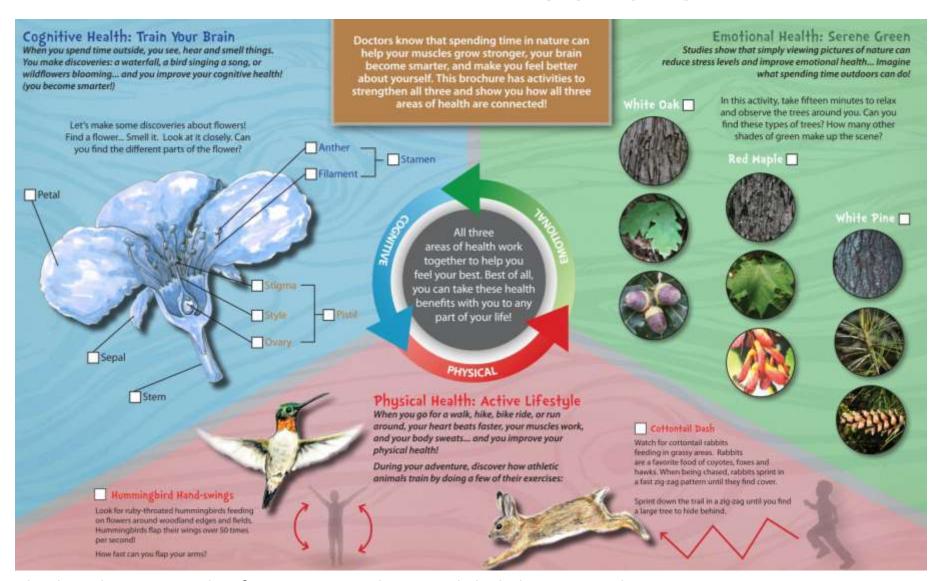
Kids in Parks has installed "pediatrician office trailheads" in the lobbies of doctor offices as part of the Park Rx movement.

TRACK Rx Brochure



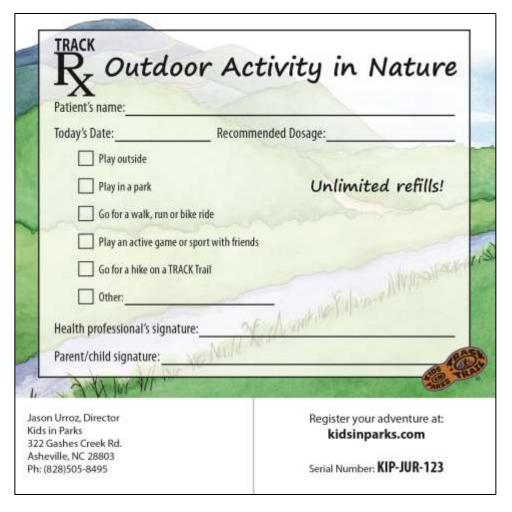
We created a TRACK Rx brochure that is housed in the Pediatrician Display.

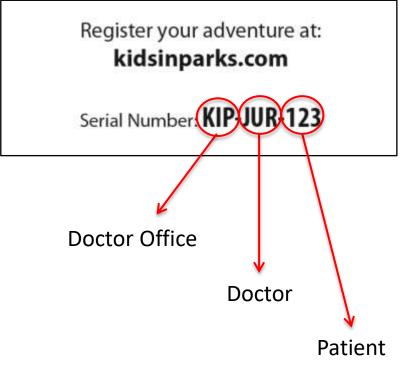
TRACK Rx Brochure



The brochure provides fun activities that teach kids how spending time in nature improves their overall health.

Park Rx – Prescription Pads





Our prescription pad allows doctors to prescribe outdoor activity and TRACK Trails to their patients. The unique 9-digit serial number allows us to track the fulfillment of the Rx by the patients, and report back to the doctor regarding their patient's fulfillment.

National ParkRx Day



Getting pediatricians to hike the trails with their patients and park staff in a "Walk with a Doc" style program has proven to be very successful.

REVIEW

Questions?





Contact Us



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