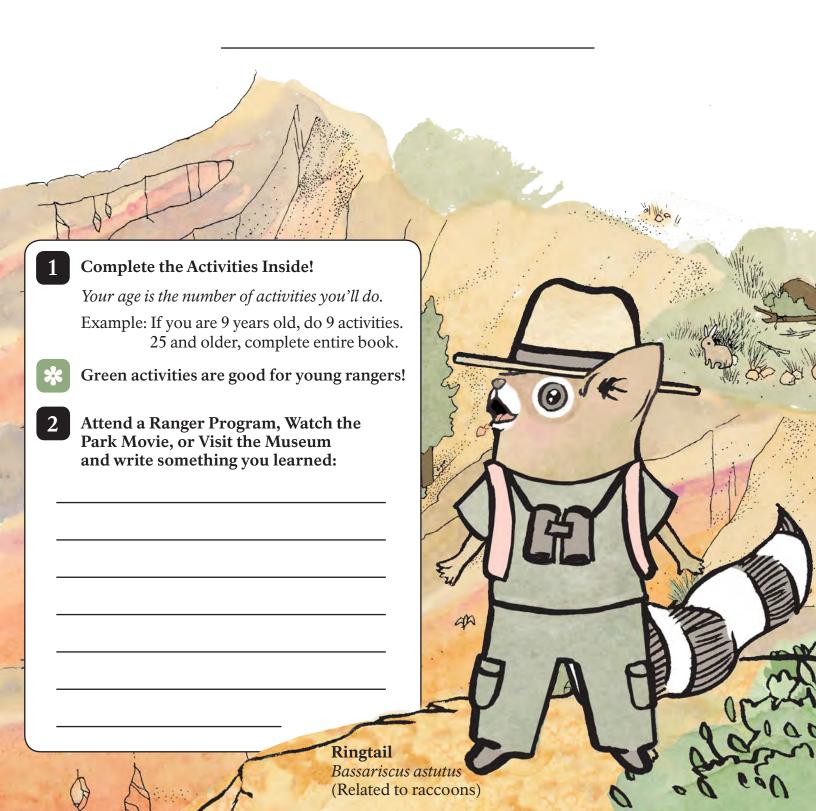
Bryce Canyon Junior Ranger Field Book

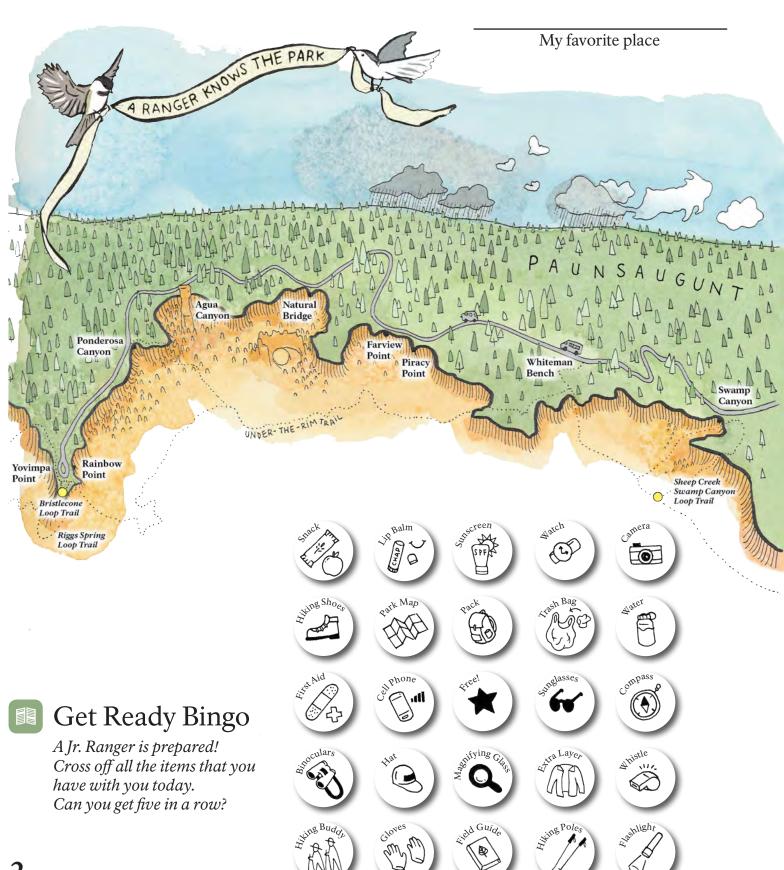
THIS BOOK BELONGS TO:



Planning Your Day at Bryce Canyon

Using Your Map

A Jr. Ranger knows how to read a map and knows where they've been in the park. Use the park map below to circle every place you go during your visit. Below, write your favorite place that you visited.



What's Happening Today?

Knowing what's happening outside is an important part of planning a day at Bryce Canyon!

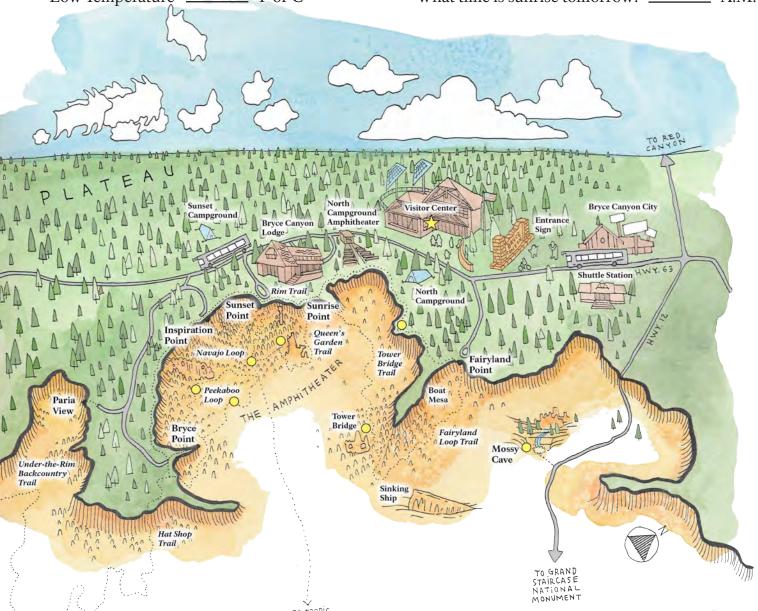
What is the weather like today?

High Temperature _____ F or C

What time is sunset today? P.M.

Low Temperature _____ F or C

What time is sunrise tomorrow? _____ A.M.



I Hiked the Hoodoos! Complete this activity and receive a special reward!

Hike a minimum of 3 miles / 4.8 km and find the benchmarks. Take a photo or a pencil rubbing (back page) of the benchmarks you find. If you are completing the entire book, this activity is optional.

Mossy Cave	(0.8 mi/	1.3 km)

Tower Bridge (3.0 mi / 4.8 km)

Bristlecone Loop (1.0 mi / 1.6 km)

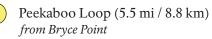
Rim Trail (2.5 mi / 4.0 km)

Navajo Loop (1.3 mi / 2.2 km)

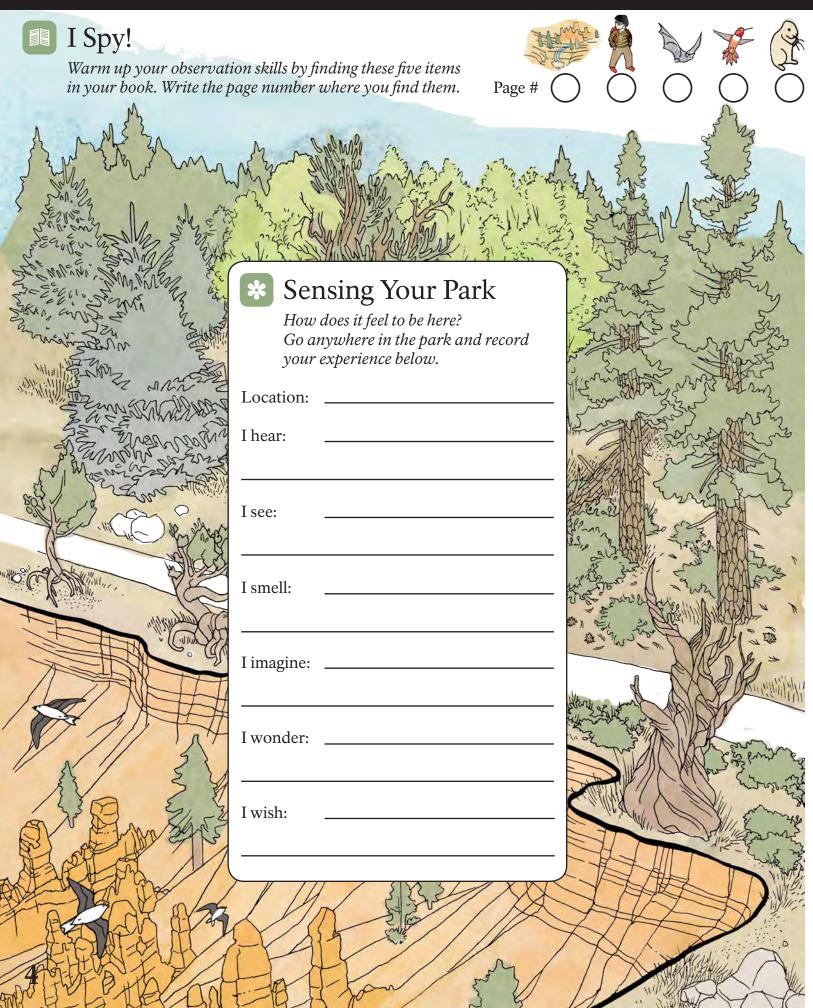
Sheep Creek (4.0 mi / 6.4 km)

Queen's Garden (1.8 mi / 2.9 km)





Being in Bryce Canyon





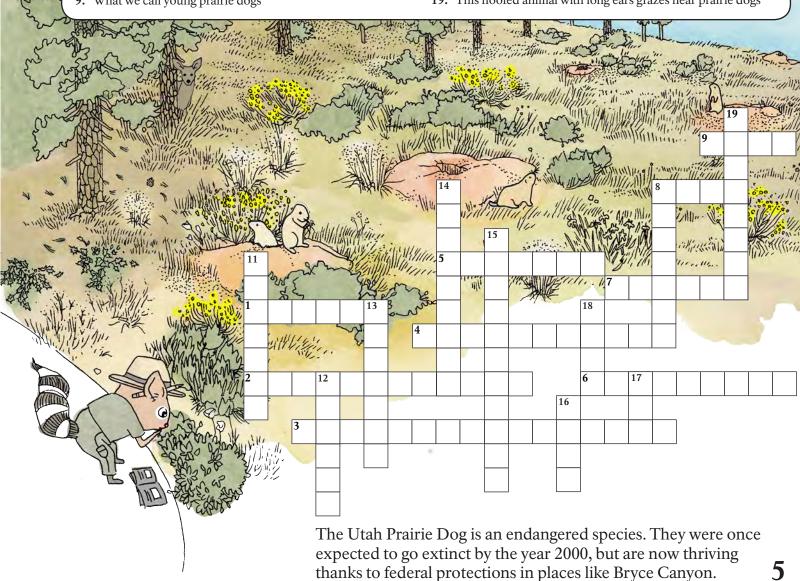
Prairie dogs have a very complex language that they use to protect themselves and their colony. Use your own word skills and solve the clues to connect all three burrow entrances!

Across Clues

- 1. This person helps protect the park and keep prairie dogs safe
- 2. These venomous reptiles with noisy names are predators of prairie dogs; watch your step in the summertime!
- 3. This room is where prairie dogs can hear the world above
- 4. This sleepy time usually lasts from November to March
- 5. This scientific field of study includes prairie dogs and all other animals in the park (except humans)
- 6. This is the fastest land animal in North America, often found grazing near prairie dog habitat
- 7. The sego lily and evening primrose are examples of this
- 8. Male and female prairie dogs do this every spring to make more of 9-Across
- 9. What we call young prairie dogs

Down Clues

- This is the name of the park's summer rainy season
- 11. This room is where you'll find the youngest prairie dogs
- 12. This room helps keep the rest of the burrow clean
- 13. This group of mammals, which includes squirrels, mice, and prairie dogs has front teeth that never stop growing
- 14. This plant has rough leaves and red bark; in Spanish its name means "tiny apple"
- 15. This large bird with an expensive sounding name is a common predator of prairie dogs
- 16. Like real dogs, what we call the sound prairie dogs make
- 17. Number of adult males in a prairie dog clan
- 18. Cars that are prepared to do this can save prairie dog lives
- 19. This hoofed animal with long ears grazes near prairie dogs

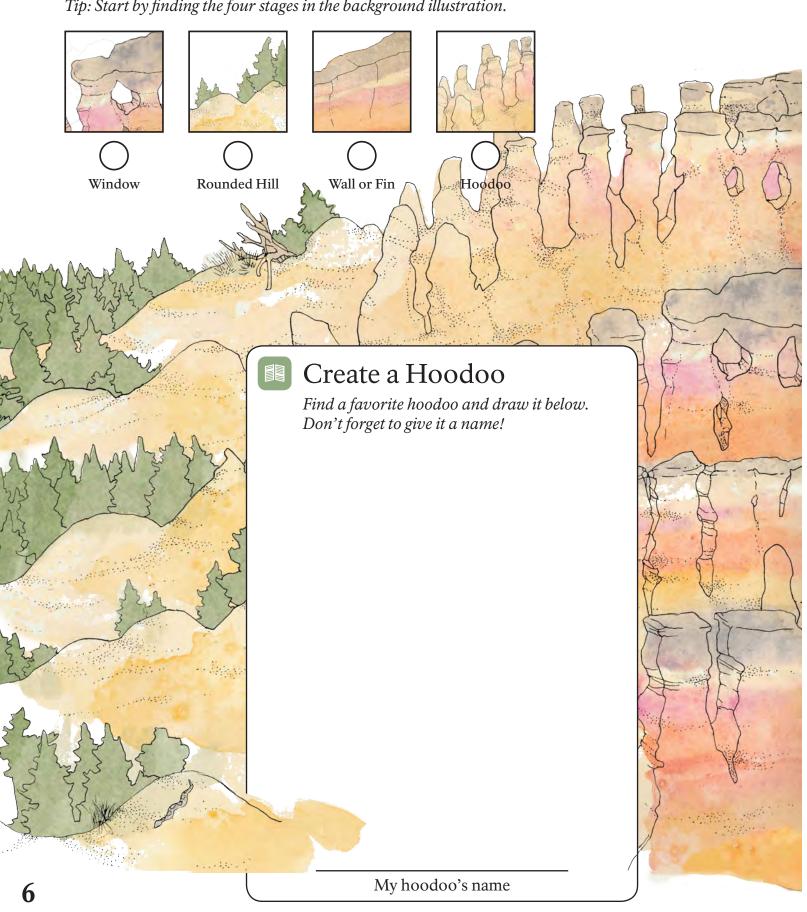


Geology of Bryce Canyon



Lifecycle of a Hoodoo

Place the hoodoo stages in the correct order (1 to 4) and answer the questions on the next page! Tip: Start by finding the four stages in the background illustration.



Red Limestone

Mudstone

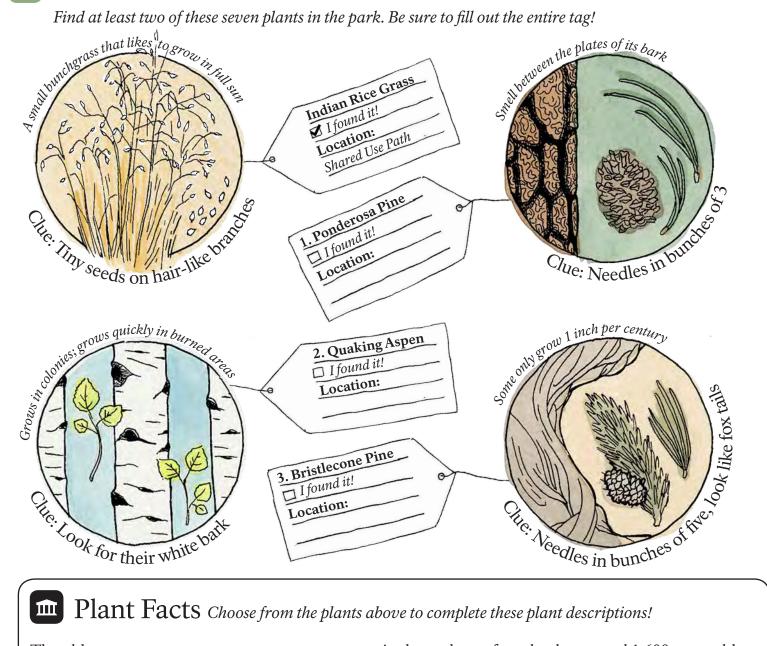
that settled at the bottom of a fresh-water _____

These layers have calcium carbonate and other sediments rich in the element ______, which gives a red color.

Plants of Bryce Canyon

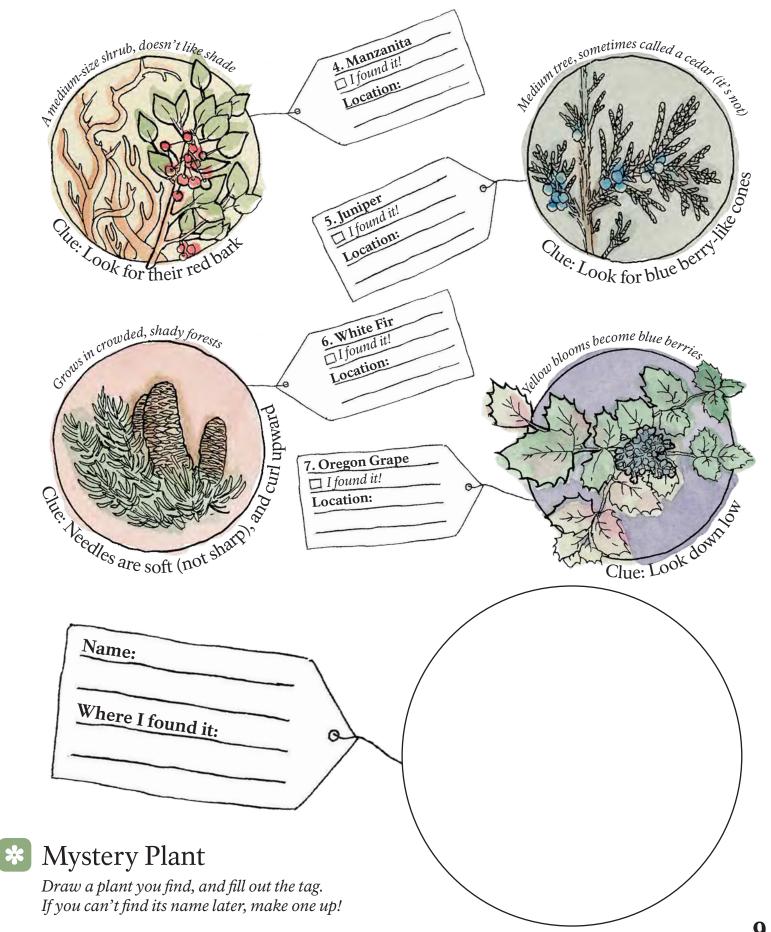
Plant Safari

Find at least two of these seven plants in the park. Be sure to fill out the entire tag!

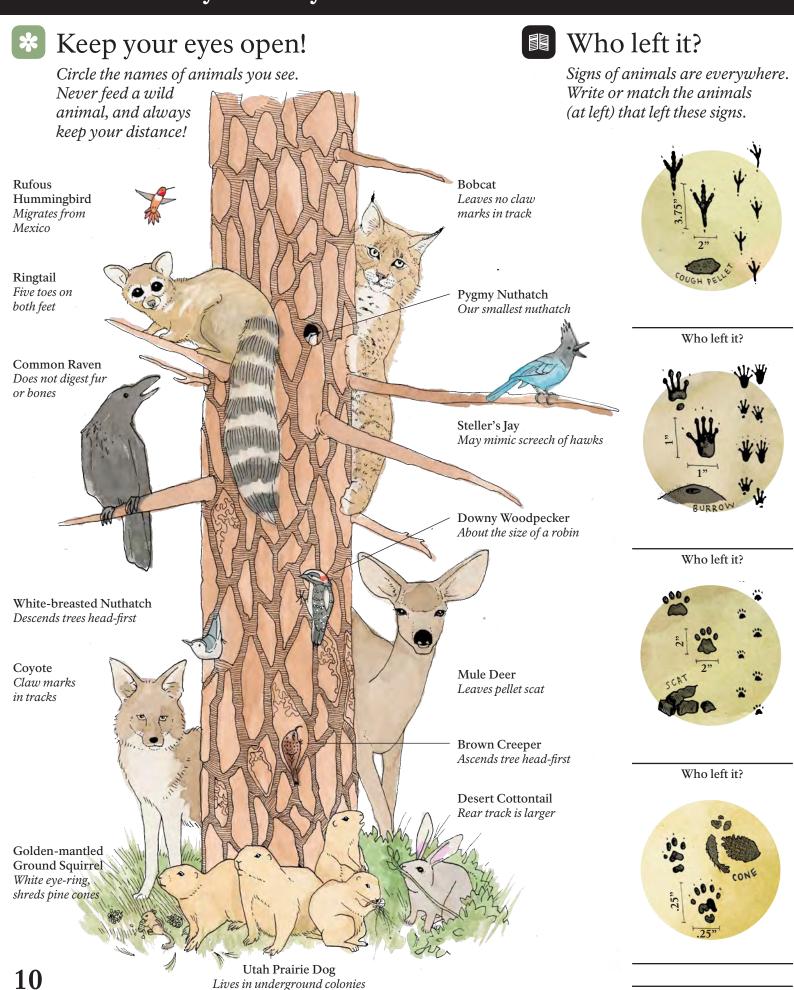


Plant Facts Choose from the plants above to complete these plant descriptions!

The oldest	in the park was found to be around 1,600 years old.
Small red berries give	its name, which means "tiny apple" in Spanish.
	grows in groups, and may have arrived here over 10,000 years ago.
Along with the pinyon pine,	defines the park's lowest elevation zone zone.
The spaces between the bark of	smell like vanilla or butterscotch.
Along with the spruce tree,	defines the park's highest elevation zone zone.
Edible seeds have made	an important grain for native peoples.
Leaves of	change from summer green to winter purple.



Animals of Bryce Canyon



Who left it?





Track yourself!

Your hand can be a great way to measure tracks. Trace your hand below, then choose an animal track (at left) and draw it on top of your hand to show how their sizes compare.



Who left it?

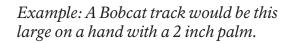


Who left it?



Who left it?







.25

Humans of Bryce Canyon



What Parks Mean To Us (Interview)

National parks exist all around the world, and they mean different things to different people. Ask someone visiting the park today these questions, and write their answers below.

Which was the first national park you ever visited? When did you visit?

What do you remember about that experience? If Bryce Canyon is your first, why did you come?

What do national parks mean to you?

Of all the national parks you've visited, which was the most special to you? Why?



Naming the World Around You

Many names in and around the park come from the language of the Southern Paiute people, who still live in this area today. Their language describes places by things that happened there, who lives there, or what it looks like. Think about what makes this place unique as you complete this activity.

PAUNSAUGUNT Plateau: Place of the Beaver

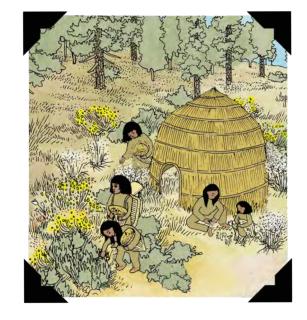
PARIA: Muddy Water

YOVIMPA: Ponderosa Pine Tree Water

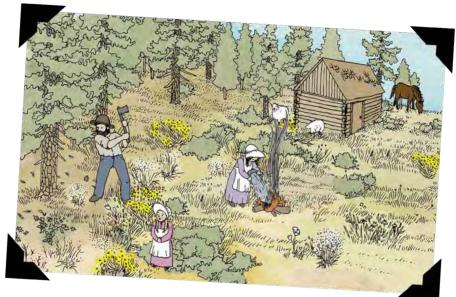
PANGUITCH: Fish Water

UNKA TUMPI WUN-NUX TUNGWATSINI XOOPAKICHU ANAX (BRYCE CANYON): Red Rock Standing Like a Man in a Hole

What is most special about this place to you?



If it had no name, what would you call this place?





Settlers from The Church of Jesus Christ of Latter Day Saints arrived here in the 1860s. Bryce Canyon's name comes from one of these settlers, named Ebenezer Bryce. This faith teaches the importance of caring for all of the life that exists on this planet. You can help take care of this land too by picking up at least 10 pieces of litter you find during your visit. Cross off a trash can for every piece you find!

















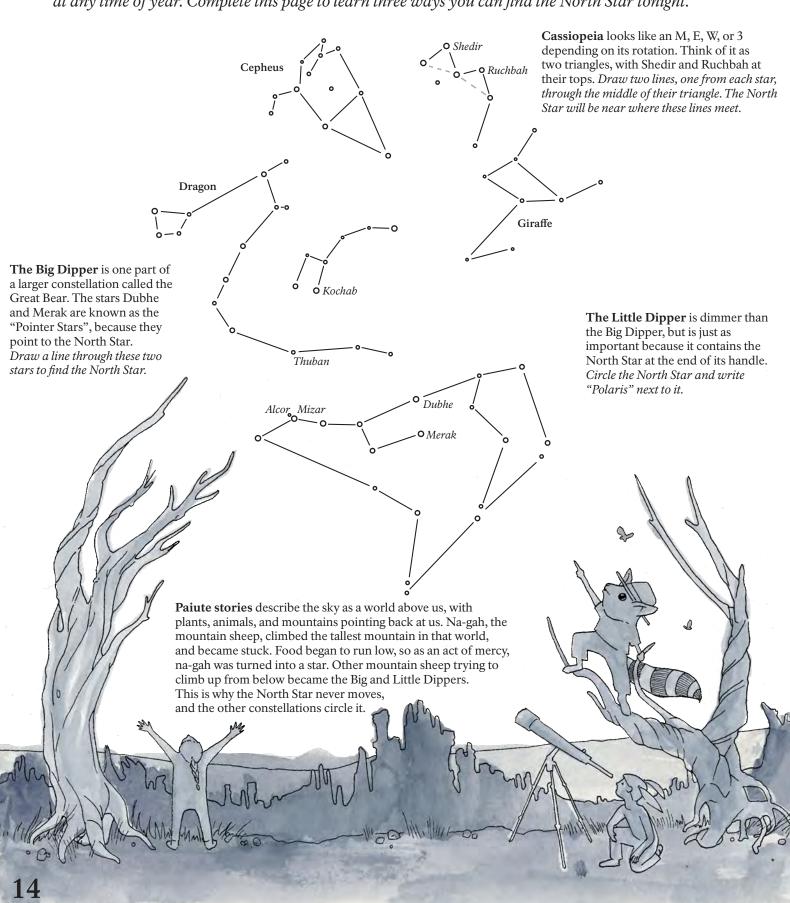




Night Skies of Bryce Canyon

The North Star

At this latitude, the stars that circle the North Star (Polaris) are always visible, so you can see them at any time of year. Complete this page to learn three ways you can find the North Star tonight.





Just a Phase

It takes about 28 days for the moon to orbit Earth and go through all of its phases. Some phases are better for stargazing than others. Shade in the missing phases, and answer the questions below!



New Moon Rises at sunrise



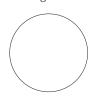
Waxing Crescent Rises a few hours after sunrise



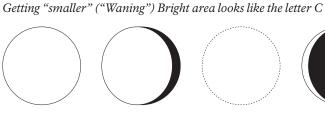
First Quarter Rises around noon



Waxing Gibbous Rises mid-afternoon



Full Moon Rises at sunset



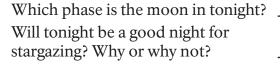
Waning Gibbous Rises a few hours after sunset



Last Quarter Rises around midnight



Waning Crescent Rises a few hours before sunrise



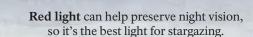
Losing the Night

For a few days a month the moon can make it difficult to see the stars, but in most places artificial light now makes it difficult to see stars every night of the year. One of the best things you can do to help bring back the stars is to "shield" the lights around your home.



Unshielded Light creates light pollution by allowing light to shine in all directions, including the sky, where dims the stars.

Light pollution not only makes it difficult to see the stars, but confuses animals, plants, and our bodies, all of which are carefully adapted to the brightness of the day and the darkness of the night.



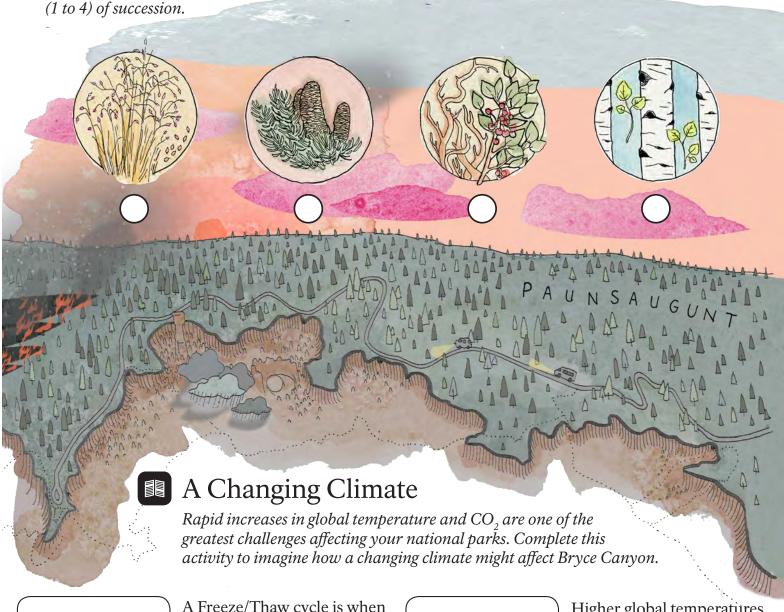
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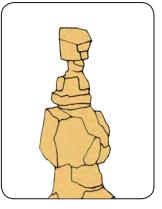
Protecting the Future of Bryce Canyon

*

What Comes After a Fire?

Wildfire is nature's way of keeping house. When no fire occurs, forests become dense and overcrowded, making them less healthy and vulnerable to larger, more destructive wildfires. After a fire, grasses take advantage of lots of sunlight on the forest floor. Then shrubs arrive, providing berries and more for animals to eat. Finally, tall trees return to the area, providing more food and shelter. The order that plants return after fire is called "succession". Use the plant clues on Page 8 and 9 to put these plants in the correct order (1 to 4) of succession





A Freeze/Thaw cycle is when rain or melted snow freezes at night and then melts during the afternoon. This currently happens about half the nights of the year here.

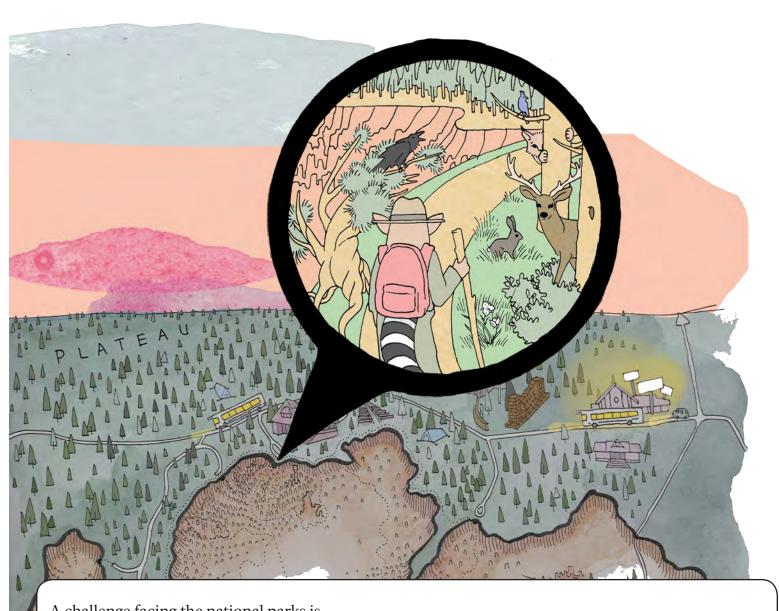
Frequent Freeze/Thaw Cycles shape rocks bit by bit, and create tall, narrow hoodoos like Thor's Hammer.

Higher global temperatures will mean fewer Freeze/
Thaw cycles, and possibly more rain here than snow and ice. Hoodoos formed in this environment could look very different than what you see today. Write or draw how more rain-shaped hoodoos might look.



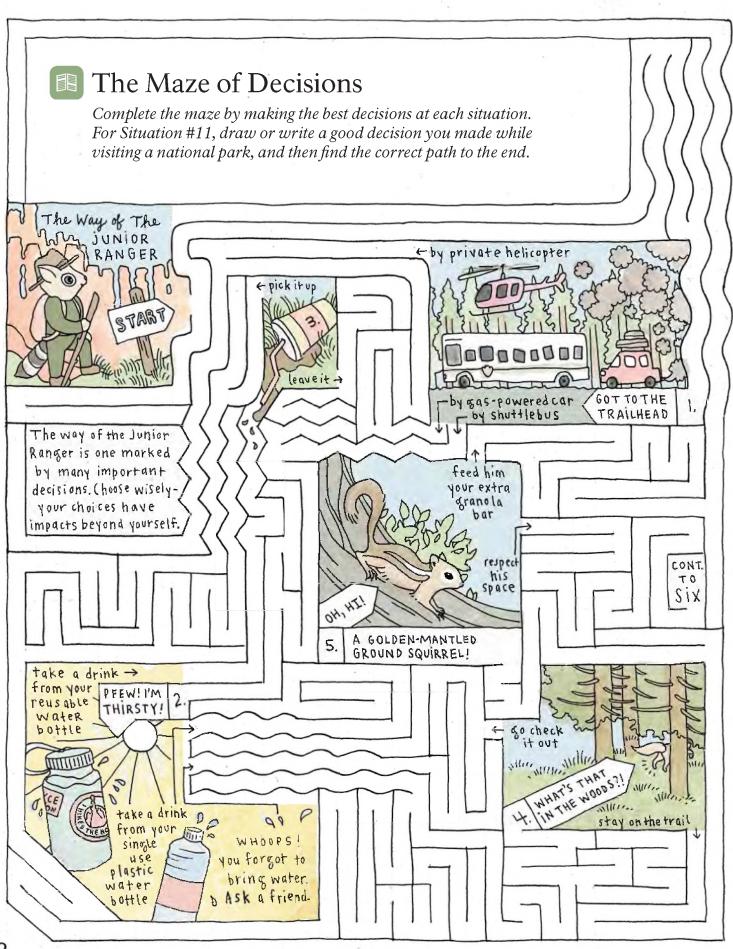
Deciding the Future of Your Parks

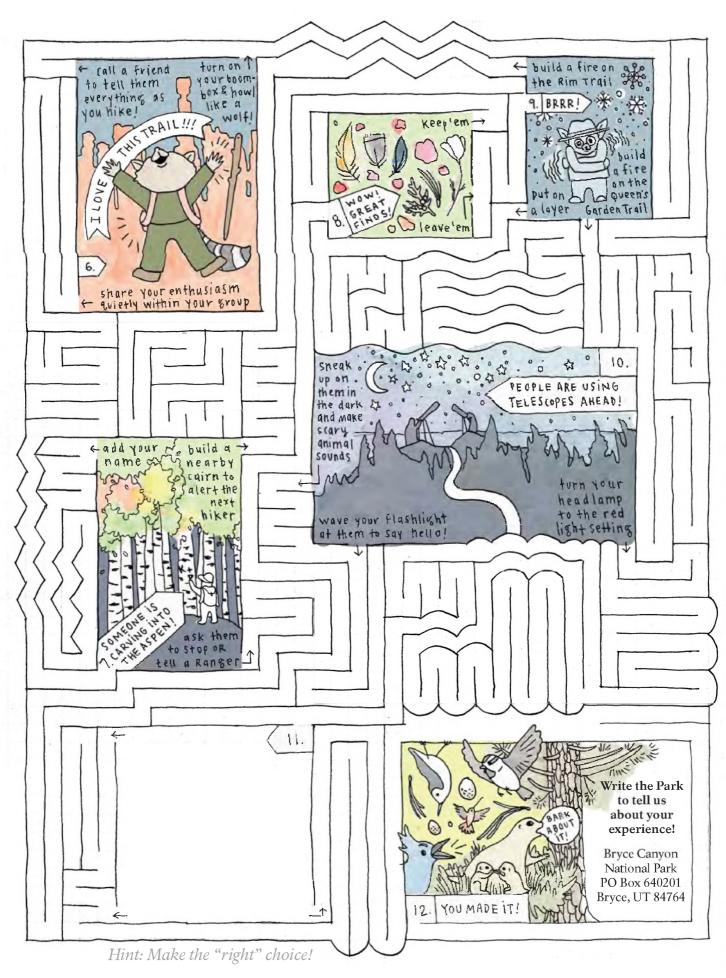
Climate Change? Overcrowding? Cell Phones? Lack of interest? Try and think of one challenge the national parks will face in your lifetime. Below, write something you think that you and the National Park Service can do to better face that challenge.



A chanenge facing the national parks is		
Something the National Park Service can do to help is to		
Something that I can do to help is to		

The Way of the Junior Ranger





I Hiked the Hoodoos (page 3)



Use this space to make pencil rubbings of benchmarks!

