

What is a Junior Ranger?

Welcome to Colorado National Monument! A colorful land of desert canyons and rock formations awaits you. As a junior ranger, you will have three important jobs...

- 1. **Explore** Colorado National Monument.
- 2. **Learn** why it is a special place.
- 3. **Protect** its plants, animals, rocks & history.



least 7 activities

Become a Junior Ranger

If you are up for the challenge, here's how to earn your badge	
1. Find the animal picture for your age. Give your animal a name:	Ages 7 & Under Complete at least 3 activities
2. Look for pages that have your animal at the top of the page and complete those activities.	
3. Get out there. Take a hike! or	Ages 8-10 Complete at least 5 activities
Go to a ranger program (schedules at the visitor center and www.nps.gov/colm).	
4. You did it! Go to the visitor center and show your work to a ranger to get your official junior ranger badge.	Ages 10 & Up Complete at

Protect your Park



Put an X through the activities that are not allowed in the monument and circle the activities that help protect it.



What did you do to help protect the monument during your visit?

stayed on trails	respected other visitors
watched animals from a safe distance	picked up trash
left everything where I found it	What else did you do?
looked at rocks and trees, but didn't carve or mark on them	

Explore - Take a Hike!



Hiker's Checklist

- 1. Plan your hike using the park map.
- 2. To make your hike safe, draw a line from the items you will need to the backpack. Cross out the items you won't need.



- 3. Load your pack and let someone know your plan before you go.
- 4. Fill out the trail report for one of your hikes.

Explore - Trail Report



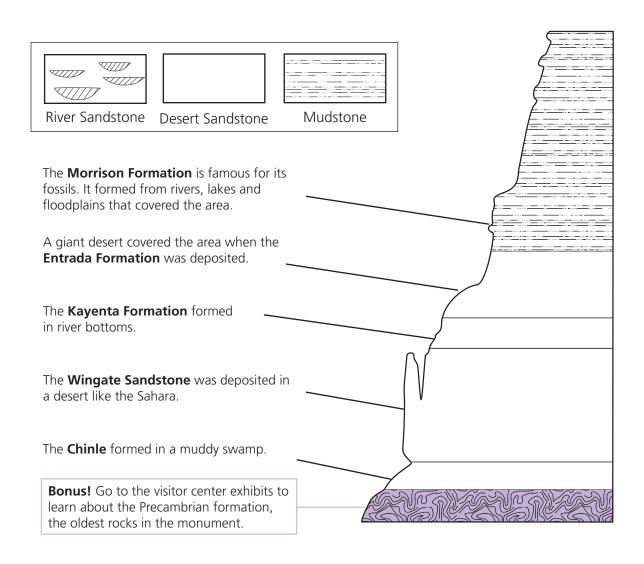
Trail Name:	; 						_
Date:			Tin	me: 			
Distance:							
Terrain (circ	cle the descri	ption(s) tha	at apply):				
Rocky	Sandy	Flat	Steep	Snow cover	ed	Rough	
Weather (c	ircle one):						
Sunny	Cloudy	Windy	Hot	Cold	Rainy	Snowy	
Describe	or draw wha	at you liked	d most abou	ut this hike:			

Learn - Be a Geologist



The canyons are made of many layers of rocks. In Colorado National Monument, you can find the oldest rocks at the bottoms of the canyons, while the youngest are at the tops. Geologists make drawings called stratigraphic columns to show the different rock layers in an area. Each layer has a pattern to show what type of rock it is made of.

Use the clues and the key below to fill in the layers in the stratigraphic column of the monument. You will use one rock type more than once.



Learn - The Wear-Away Forces



gravity

pet

Weathering (rocks breaking) and **erosion** (rocks moving) are the two never-ending forces that wear away the land and carve canyons and rock formations.

Follow the instructions below to discover the agents of weathering and erosion hidden in the boxes.

thawing

feed

- 1. Cross out all the words that rhyme with need.
- 2. Put an X on all the words ending in the letter "t".
- 3. Circle all the landforms.

right

mountain

4. Fill in the blanks below with the remaining words.

seed

freezina

mountain	rreezirig	1000	3411	riigiit	Pet		
valley	rain	mesa	streams	read	meat		
wind	out	roots	bead	canyon	floods		
plateau	snow	ice	eat	monolith	humans		
1		5		9.			
2		6		10			

left

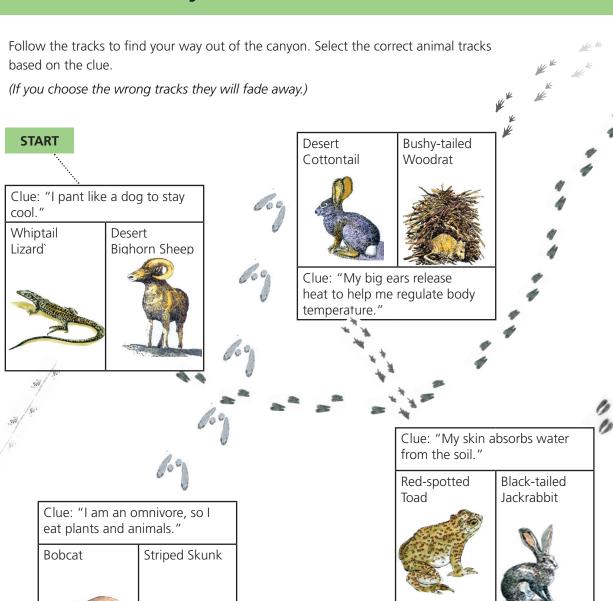
sun

cliff

niaht

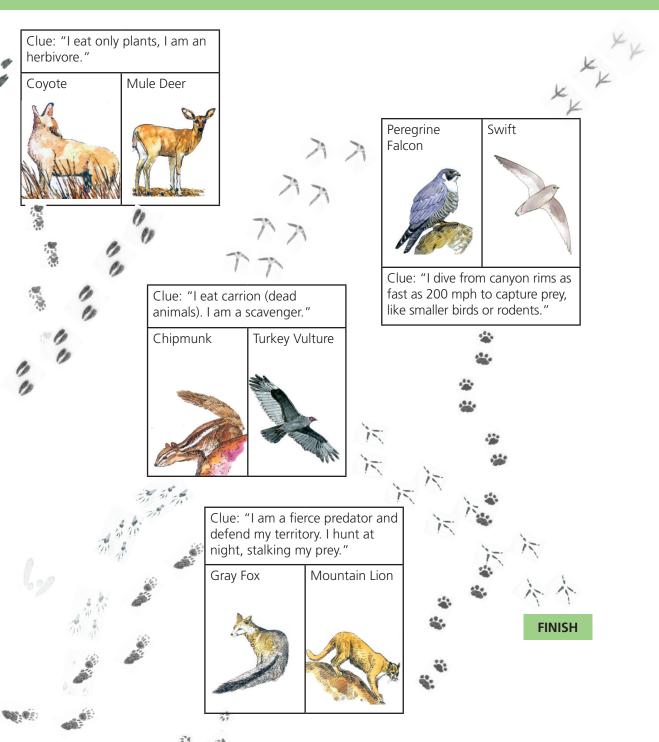
Bonus! Write an **E** next to agents of erosion and a **W** next to agents of weathering.

Learn - Wild Ways









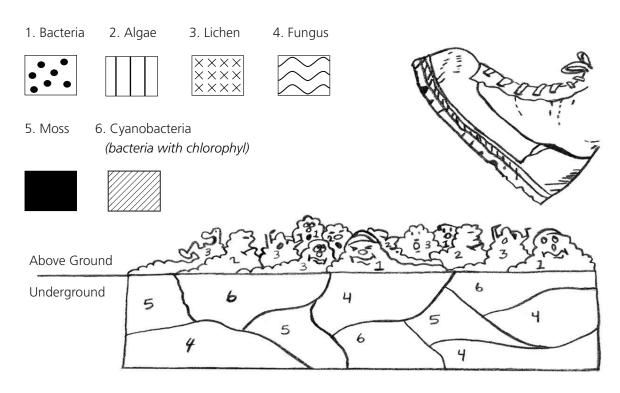
Learn - Living Soil



Biological soil crust is the black, bumpy soil along the sides of the trails. It creates a web that binds the soil and holds water in, allowing plants to take root. Biological means "living"... so our soil is alive, but fragile. Help us protect this important crust by staying on the trails!



Use the key below to fill in the layers of the biological soil crust.



Bonus! Find biological soil crust along a trail in the monument and pour a little water on it. What happens to the color of the crust?

Explore - Meet the Plants



Hot summers, cold winters, little water and a scorching sun make the desert a harsh place for plants. How do these hardy plants survive and grow? They have special adaptations that help them stay cool and capture and conserve water.

Use the native plant gardens around the visitor center to find and draw five of the plants listed below.

Paintbrush	Rabbitbrush	Yucca	Mormon Tea
My leaves have tiny hairs to catch water and reflect light.	Every part of me is colorful, from pastel green stems to bold yellow flowers.	My sharp leaves grow in a spiral to help water flow to my base.	Instead of leaves, I make my food in my stems.
Prickly Pear Cactus	Big Sagebrush	Showy Four-O'clock	Pinyon Pine
My thick pads help store water, and my sharp spines protect me from animals.	The strong scent in my leaves keeps hungry animals away.	To save water, I close my beautiful purple blossoms in the hottest part of the day.	My needles point up to expose less area to the sun.
Single Leaf Ash	Cliffrose	Utah Juniper	Fish-hook Cactus
The waxy coating on my leaves keeps water in and reflects light.	My tiny leaves help me use less energy and water than the other plants.	My waxy berries protect my seeds and allow less water to escape.	My pleats allow me to swell when I am full of water and shrink when I get thirsty.

Learn - Otto's Dream



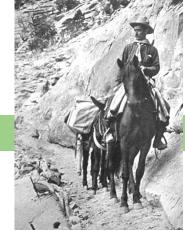
In 1905, John Otto began working in the canyons, building trails and taking people on hikes. He called himself a "booster" and wrote letters to government officials, including the president, telling them about these amazing canyons. Thanks to Otto, Colorado National Monument was established in 1911.



difference in your community, school, or friend groups.

2.

3.



Α	C	D	Е	F	G	1 1	_ N	Ο	Р	R	S	Т			1		a Com		
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2. C	tto	lived	d in					and	l buil	t ov	er 2	0 m	iles of			—		<u> </u>	<u> </u>
3. To 					_	of Jul						Mc	an flag Inume	_	the	top (of		

Bonus! John Otto showed us that one person can make a difference. Think of ways you can make a

Learn - Living off the Land



Long before the wagon trains made their way out west, Indigenous peoples like the Ute and the Fremont have lived in this arid region. They have been masters at using plants for food, medicine, clothing, tools, shelter and everything else they need. When you go home, talk about the plants that you use in your everyday life with your family.

Unscramble the plant names below, then find them in the puzzle.

willow	sumac	juniper	yucca	sagebrush		pine			mor	mon		ricegrass		
1. Indigenous usamc			m the wood	d of	ł	W	Y	Р	U	W	Р	R	S	
					J	S	I	U	0	0	P	Ε	U	
2. nomrmo _ make a drink			a is boiled to) [J	N	U	L	С	I	Y	P	М	
3. Rope is ma	de from the	e inner bark of	f Utah	F	Ξ	С	L	R	0	С	R	I	A	
njpirue i i				·	J	Ι	Υ	С	В	G	A	N	С	
4. Pinyon pne			re harvested	in V	V	G	Н	F	Q	Ε	В	U	K	
the fall to eat during the winter.				1	1	0	R	M	0	N	G	J	K	
5. ecgrsirsa _ ground into fl			_ s seed:	s are ()	Ε	Т	S	U	Ε	А	A	K	
				7	Γ	L	Q	I	V	Χ	0	В	S	
6. cycua eaten raw, an				S	5	S	A	R	G	Ε	С	I	R	
7. ilwolw		hra	anches are	И	1	Χ	С	V	M	R	Н	D	T	
perfect for ma			arieries are	C	5	С	E	P	Q	I	V	T	В	
8. Indigenous basgerhus _				f	1	V	D	С	Ε	В	С	0	D	

Protect this Land Forever



The National Park Service (NPS) protects over 400 special sites around the country. Each site protects important natural and cultural resources. This arrowhead is the symbol of the NPS. Each picture inside the arrowhead represents resources protected at NPS sites.

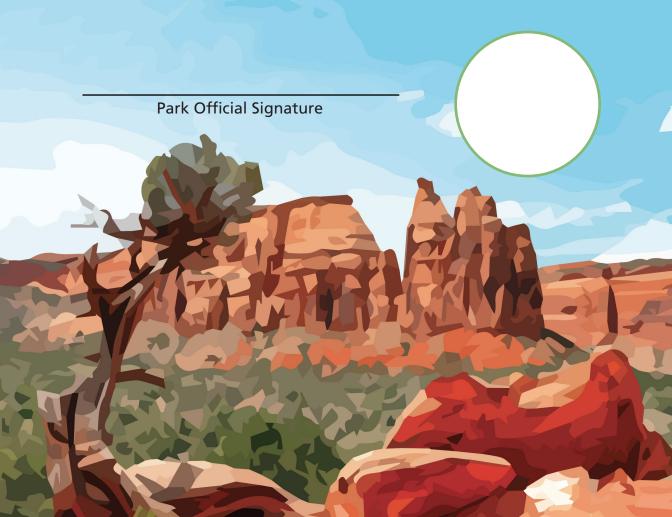


Unscramble the words below to find out what each picture stands for.

kcros	The mountain is the symbol for landforms and
tawre	The lake depicts the resources and opportunities for recreation.
Idwifeli	The bison symbolizes the animals, or
itohsry	The shape of the arrowhead stands for the of the United States.
lpatns	The tree represents the vegetation, or
	visitied any other National Park Service sites? If so which ones have you been to?

Congratulations!

You are an official Junior Ranger at Colorado National Monument!





This Junior Ranger booklet was funded by the Colorado National Monument Association (CNMA), a nonprofit organization that supports interpretive and educational programs at Colorado National Monument. To become a member of CNMA visit www.coloradonma.org.

