

Junior Ranger

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.



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: ______.
- 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...

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 7 & Under Complete at least 3 activities



Ages 8-10 Complete at least 5 activities





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:			Time	5:			
Distance:							
Terrain (circl	le the descrip	otion(s) tha	at apply):				
Rocky	Sandy	Flat	Steep	Snow covere	ed	Rough	
Weather (ci	rcle one):						
Sunny	Cloudy	Windy	Hot	Cold	Rainy	Snowy	

Describe or draw what you liked most about 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.





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.

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

right	seed	thawing	left	cliff	gravity	
mountain	freezing	feed	sun	night	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.
3.	7	11
4	8	12

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

Learn - Wild Ways

Follow the tracks to find your way out of the canyon. Select the correct animal tracks based on the clue.

(If you choose the wrong tracks they will fade away.)







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?







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.

Crack the code to learn more about John Otto.

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1. After the monument was established in 1911, Otto was paid \$1 a month to take care of the monument as its first ▼ ₩ ™ A ♥

3. To celebrate the 4th of July, Otto raised the American flag on the top of ____ ___ ___ Monument.

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Bonus! John Otto showed us that one person can make a difference. Think of ways you can make a difference in your community, school, or friend groups.

.....

1. 2. ____ 3.







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	уисса	sagebrush	F	pine		mor	mon		rice	grass
1. Indigenou: usamc		ke baskets frc 	om the wood	d of _H	W	Y	P	U	W	P	R	S
2. nomrmo make a drink		m teo ds.	a is boiled to	V D U		I U		O C		P Y	E P	U M
3. Rope is made from the inner bark of Utah			E	С	L	R	0	С	R	Ι	A	
njpirue	i			J	I	Y	С	В	G	A	Ν	С
		nuts a	re harvested	lin ^W	G	Η	F	Q	Ε	В	U	K
the fall to eat during the winter.		M	0	R	Μ	0	N	G	J	K		
5. ecgrsirsa ground into t		e n as cereal.	_ s seed	s are 💦 🔿	Ε	Т	S	U	Ε	A	A	K
-				Т	L	Q	Ι	V	Х	0	В	S
		fruits and f are used for s		S	S	A	R	G	Ε	С	I	R
7. ilwolw		bra	anches are	М	X	С	V	W	R	Η	D	Т
perfect for m				S	С	Ε	Ρ	Q	Ι	V	Т	В
-		ave cloth from _ b		f	V	D	С	E	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.



Bonus! Have you 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!

Park Official Signature



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