Glen Canyon National Recreation Area
Rainbow Bridge National Monument

National Park Service
U.S. Department of the Interior
Glen Canyon National Recreation Area

Welcome to Glen Canyon National Recreation Area
Junior Ranger Program

Glen Canyon NRA was established in 1972 to protect 1.25 million acres of desert and canyon country and Lake Powell, the reservoir created by Glen Canyon Dam. Water is extremely important in this entire region. And as you will discover throughout this booklet, every living thing needs water to survive including you.

This booklet will help you learn about the park as you become a Junior Ranger. Here's how it works.

1. Complete three booklet activities at or above your age level. See Dilbert's levels below.
2. Participate in at least one activity suggested on the Activity Log page. Get activity signed.
3. Bring your completed booklet to either the Carl Hayden or Bullfrog Visitor Centers for a Ranger to review and issue your Junior Ranger badge and signed certificate.

Meet Dilbert. He is a water droplet. Look for him on each page to see the level for each activity. Have fun and do your best.

All ages

Ages 4-6

Ages 7-9

Ages 10-12

Junior Ranger Certificate

This is to certify that _____ has completed activities in the **Junior Ranger booklet** and by doing so has demonstrated interest in supporting the National Park System to help protect our nation's heritage & resources.

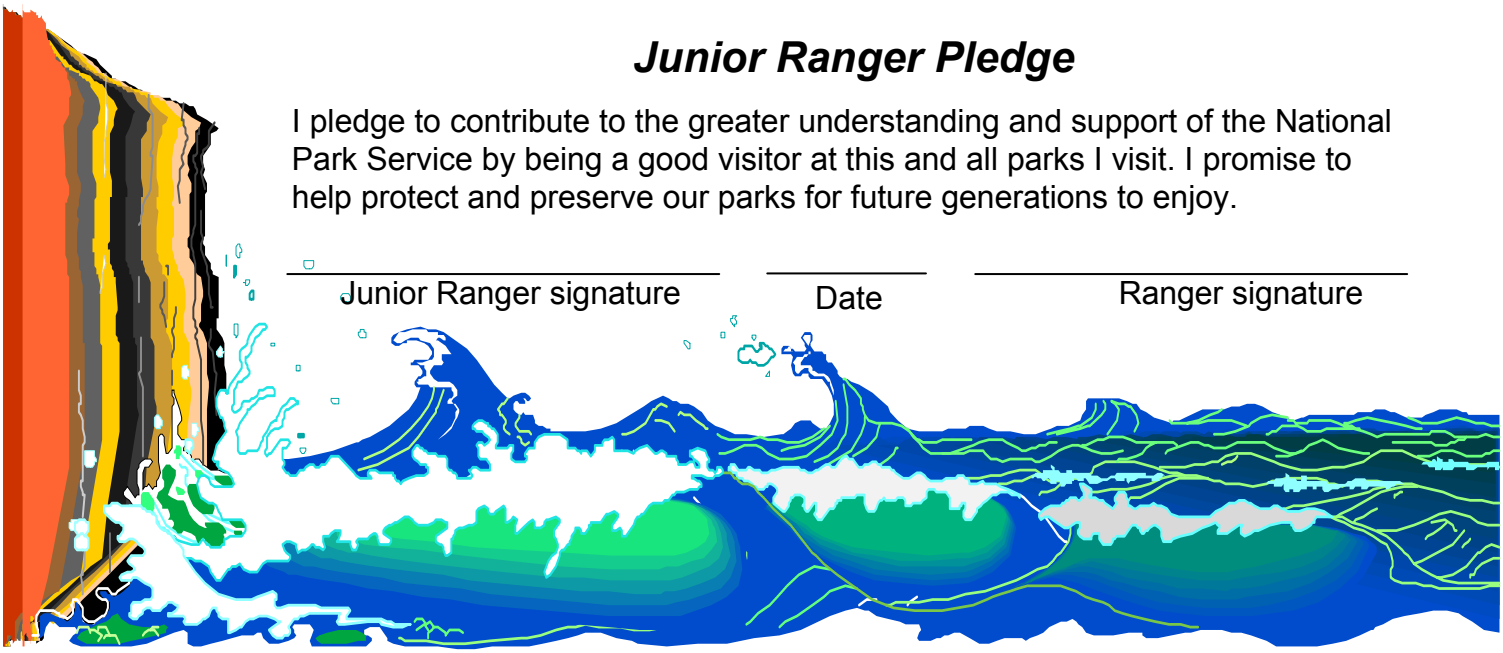
Junior Ranger Pledge

I pledge to contribute to the greater understanding and support of the National Park Service by being a good visitor at this and all parks I visit. I promise to help protect and preserve our parks for future generations to enjoy.

_____ Junior Ranger signature

_____ Date

_____ Ranger signature



The Amaze-ing Colorado River Watershed

Wildlife, plants, and people depend upon a constant supply of clean water to survive. The Colorado River delivers water from the high mountain ranges to meet the demands of millions of people in seven western states and Mexico. However, during drought years water supplies are limited and must be conserved- *there is only just so much of "Dilbert" to go around*. Lake Powell is one of many reservoirs within the Colorado River Storage Project that stores water for future use in the Lower Colorado River Basin.

Help Dilbert find his way through the Colorado River drainage system

Water supplies are limited and precious. List 2 ways you can help Dilbert conserve and protect our water resources.

_____

_____

Do you know where your household water comes from?

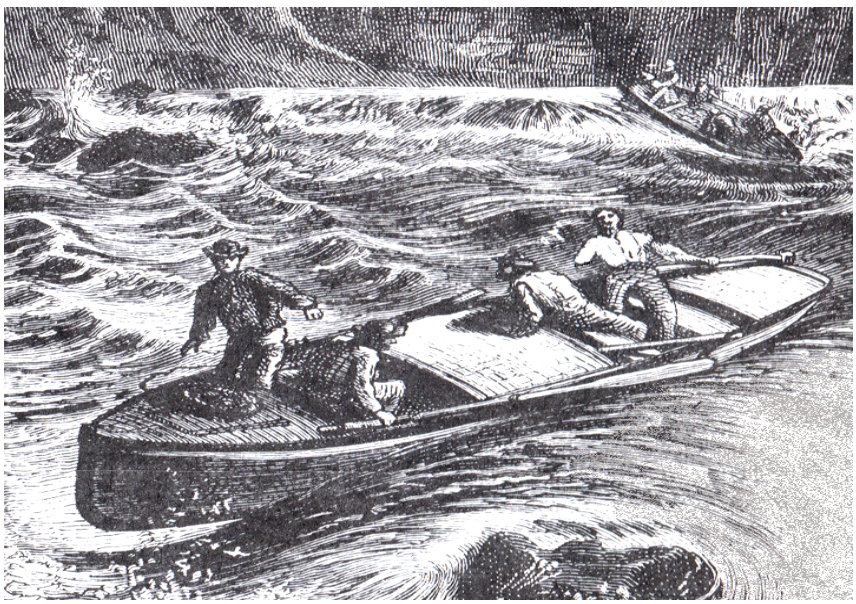
_____

Great Travelers of Yesteryear

Explorers, pioneers, miners and cowboys helped create this area's history. All encountered the Colorado River, which either helped or hindered their travels. In 1869, civil war veteran and geologist John Wesley Powell was the first to navigate the Colorado River with a 9 person crew from Wyoming to the Nevada border. Imagine being with him on that dangerous journey. Look at his supply list. What would you take if you went on a similar journey today?

Supplies for 99 days

Powell's supplies	*Your supplies*
-Flour	_____
-Salt	
-Bacon	_____
-Dried apples	
-Coffee	_____
-Sugar	
-Ammunition, axe, saw	_____
-Animal traps, knives	
-Sextant, compass	_____
-Weather instruments	
-Warm clothes	_____
-Extra boots	
-Journal/pens	_____



Things to think about……

Could you last on a river trip for over 3 months?

What kind of boat would you use?

Junior Ranger Activity Log

Keep track of all the great things you do during your visit. Have your Activity Log ***signed*** by the employee who gave the program. You can attend a ranger or visitor center program, go on a Dam tour, or take a river raft or boat tour. Remember to fill in what you liked best about the activity in the space at the bottom of this page.

Activity	Employee signature & title	Date
Activity	Employee signature & title	Date
Activity	Employee signature & title	Date

_____

This is what I liked or learned most from the activity I did

Interview a National Park Service Employee

Now that you are becoming a Junior Ranger, you may want to find out what National Park Service employees do. There are many different jobs in national parks. Find a Glen Canyon National Park Service employee and ask for an interview. Don't forget the last question about yourself.

Employee's name and job title:_____

Where do you spend most of your day working?_____

What is your main job?_____

How long have you worked for the National Park Service?_____

What other parks have you worked in?_____

What do you like best about your job?_____

Junior Ranger's favorite question:_____

Employee answer:_____

And here's a question just about you, our newest Junior Ranger:

Why do you want to become a Junior Ranger?_____

_____

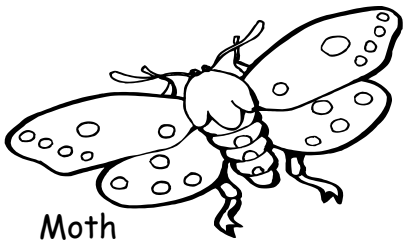
Leaving No Trace

Lake Powell is an important water source for millions of people, billions of fish and other aquatic animals. Garbage left behind makes the water undrinkable, unswimable, and unlivable for all lake users. ***Dilbert*** would like you to name 3 things you can do to ensure the water and beach are clean when you leave your campsite.

_____

_____

_____



Moth

Can you name one other plant that Dilbert helps keep alive in the desert?

_____

Prickly Pear Cactus

I am a native cactus that stores water in my leathery pads and fruits. My spines help reduce water loss. My fruit is eaten by desert animals and makes yummy jelly or salsa.

I am a scaly reptile that loves to eat insects. Look for me on rocks where I sunbathe and lounge to warm up. I do pushups when someone gets too close. I can move very fast when chased.

I am often found near streams. My leaves provide shelter from the desert sun. Hopi Indians use my roots to carve Kachinas and drums. My seeds are like fluffy cotton.

Help Dilbert describe what a desert plant feels like. *Be careful not to touch the plants with sharp spines.*

_____

_____

Tamarisk

Ancient Ones of Glen Canyon

The Ancestral Puebloans lived in this area for centuries. They built this dwelling in the cliffs about 900 years ago. Archeologists find evidence of these native people's clothes, tools, and farms throughout the park. Water helped them survive here. Look at each picture and write down how these ancient people used water.

_____
Stone blocks

_____
Farming

_____
Pottery making

Defiance House

How does water help you survive?_____

How has the need for water changed from ancient times until now?_____

_____

Power and the River

The Glen Canyon Dam holds back the Colorado River to form Lake Powell. The dam creates electricity by sending river water through turbines deep within its structure. Take a tour of the dam, talk to a ranger or tour guide, or read the exhibits to find the answers to the questions below.

Where does the Colorado River start and where does it end?

_____ _____
Start End

What is it called when water is used to make electricity?
H_____ Power

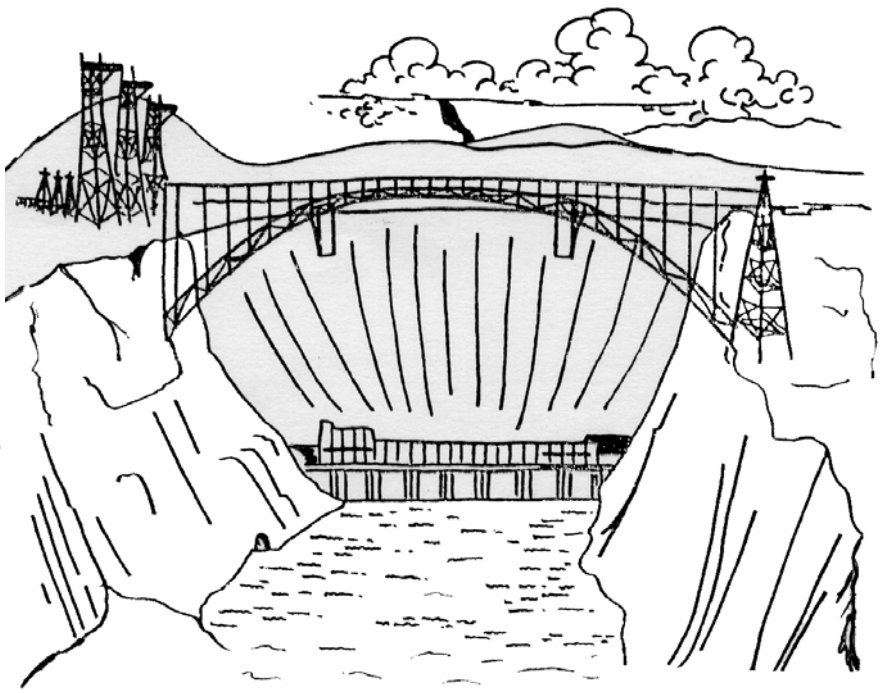
How many people does the dam supply electricity for each year?

_____

Name two reasons for building the Glen Canyon Dam?

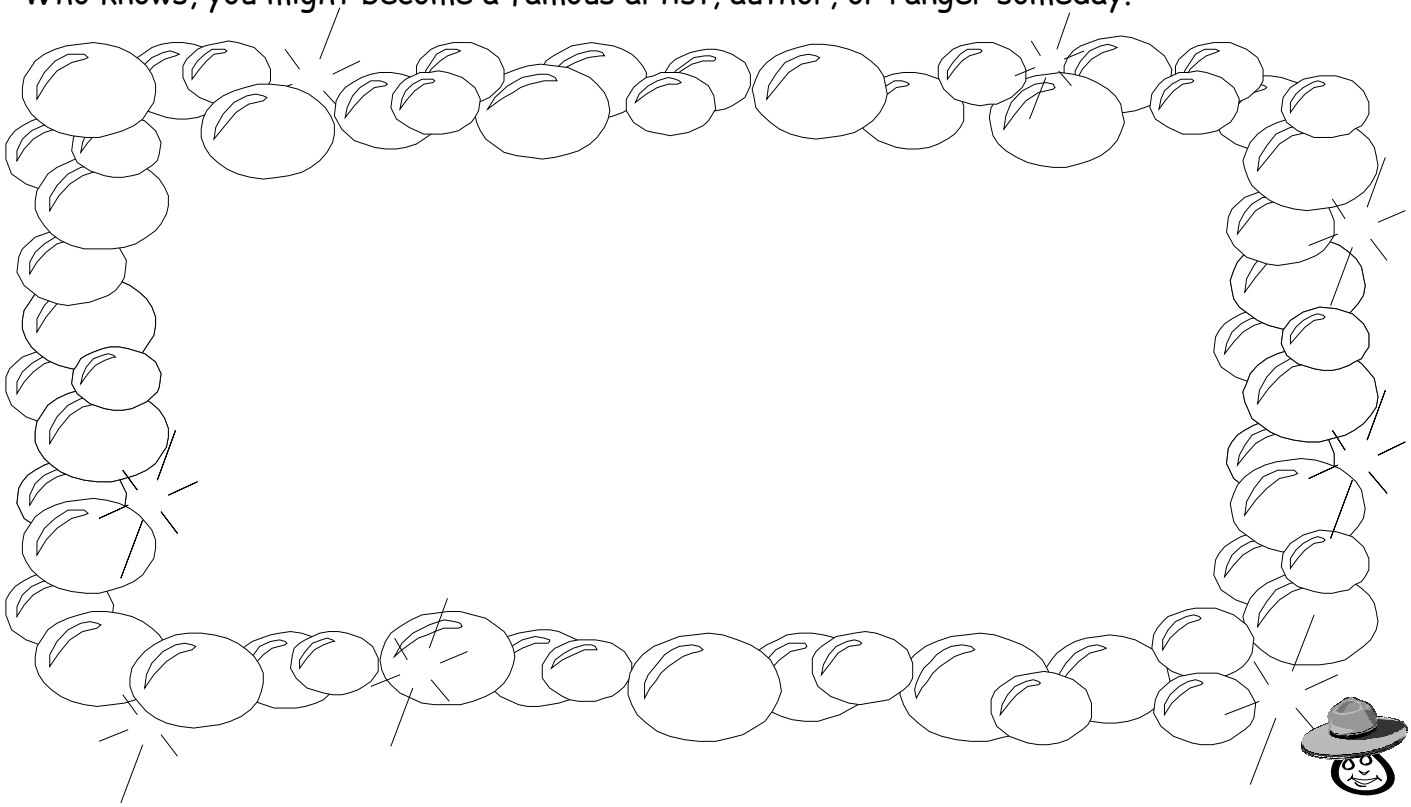
_____

_____



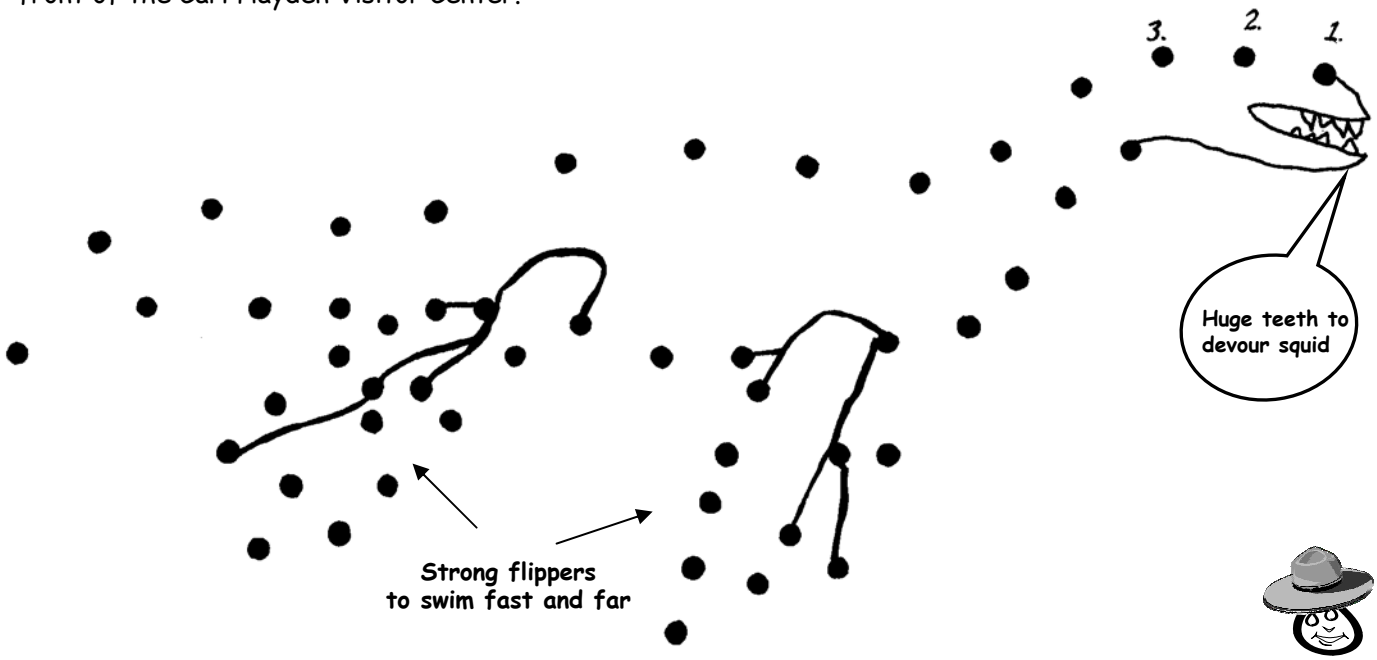
Take An Artistic Break

What do you see when you look at the park? Draw or write your memory of Glen Canyon. Who knows, you might become a famous artist, author, or ranger someday.



An Ocean Then, A Desert Now

Millions of years ago, the Cretaceous Interior Seaway covered the entire Glen Canyon area. Fantastic sea creatures that once swam here are now fossilized in these desert rocks. Connect the dots to reveal the giant 40 foot long Plesiosaur. Learn more about these ancient marine reptiles by visiting the nearby Grand Staircase-Escalante Visitor Center in Big Water, Utah. You can also see real dinosaur tracks in front of the Carl Hayden Visitor Center.



Desert Companions

Plants and animals who live in the desert have adapted to survive in extreme temperatures with little or no water. Desert dwellers also help each other survive and thrive. Draw a line from the picture to its interesting adaptation or fact. Think about who or what you depend on to survive.

Collared Lizard

Cottonwood Tree

Kangaroo Rat

I am a nocturnal animal. I get water from eating dry seeds. I stay underground during the day to keep cool and forage at night.

I am a *non-native* plant from Eurasia and have taken over where native plants used to live. My long tap roots drink up 70 gallons of water a day. My flowers are pink and feathery.

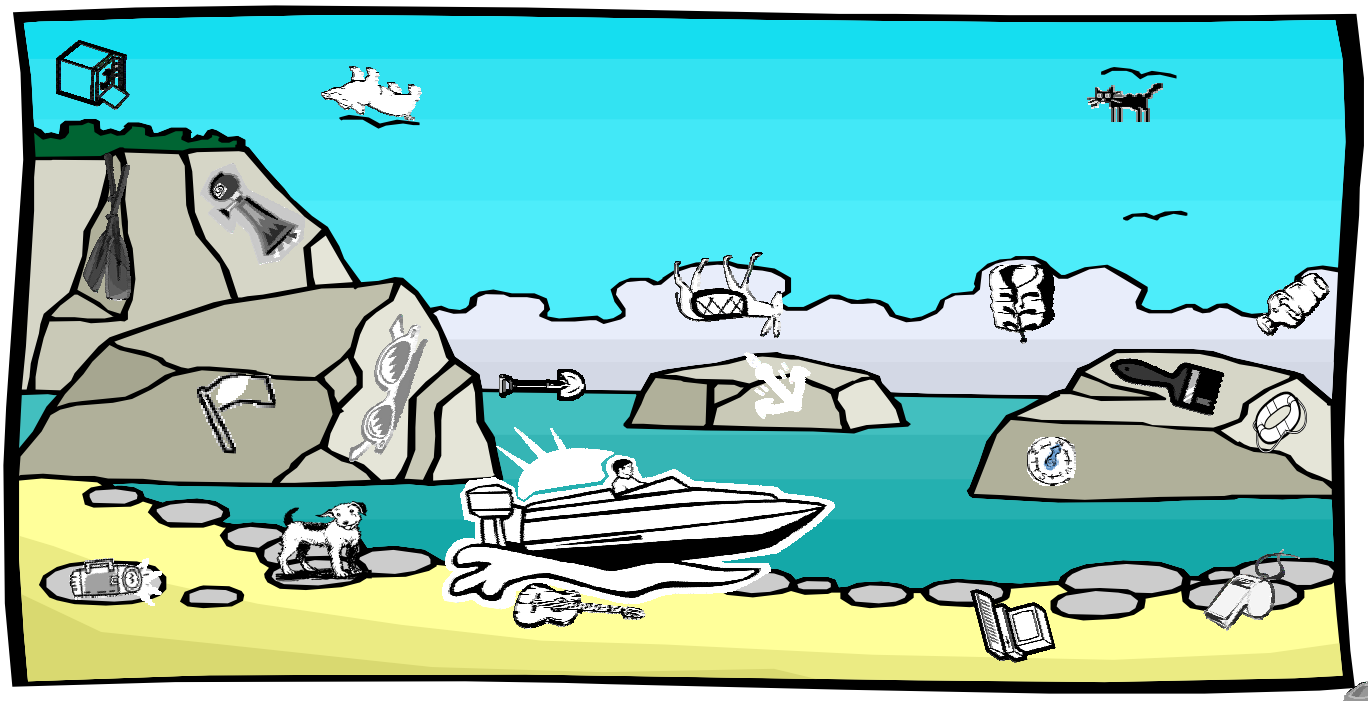
I am the only pollinator for the Yucca plant. I come out at night to visit its flowers where I lay my eggs. I also help spread pollen from bloom to bloom.

Dilbert spends a lot of time keeping all of us alive. How much water do you use every day?
_____ gallons

Yikes, you must love me!

Playing It Safe

Water safety is very important during your visit to Glen Canyon. Circle the items below that you need to take with you for a safe trip. **X** out the ones that are not important for a safe visit.



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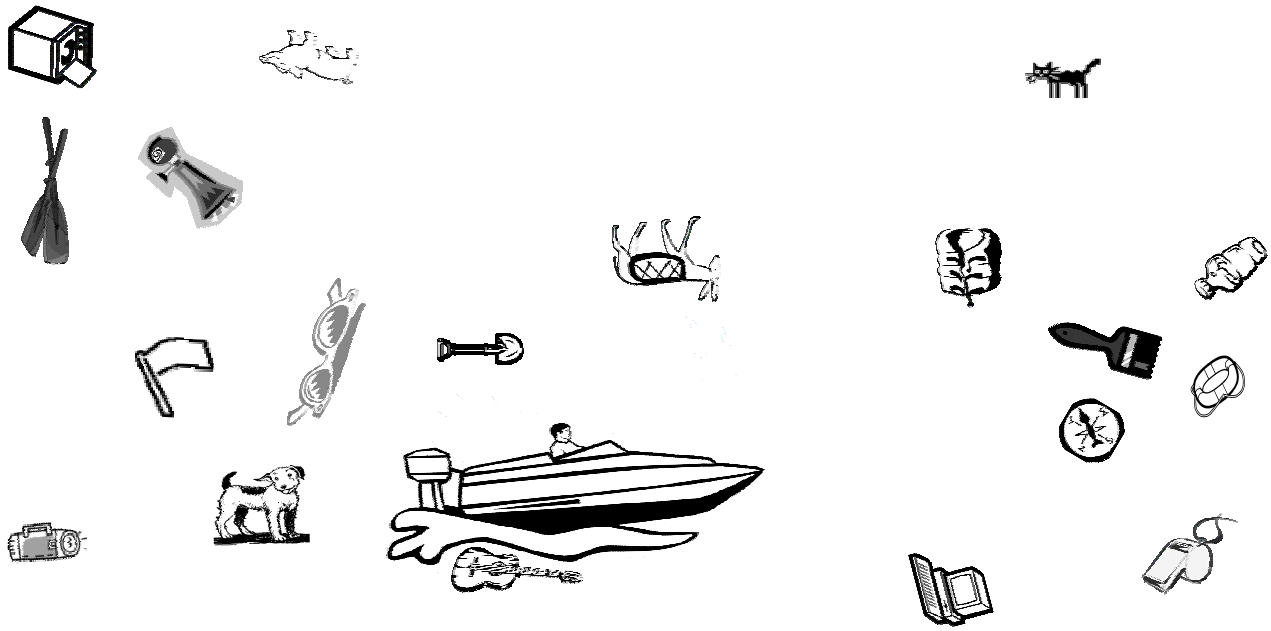
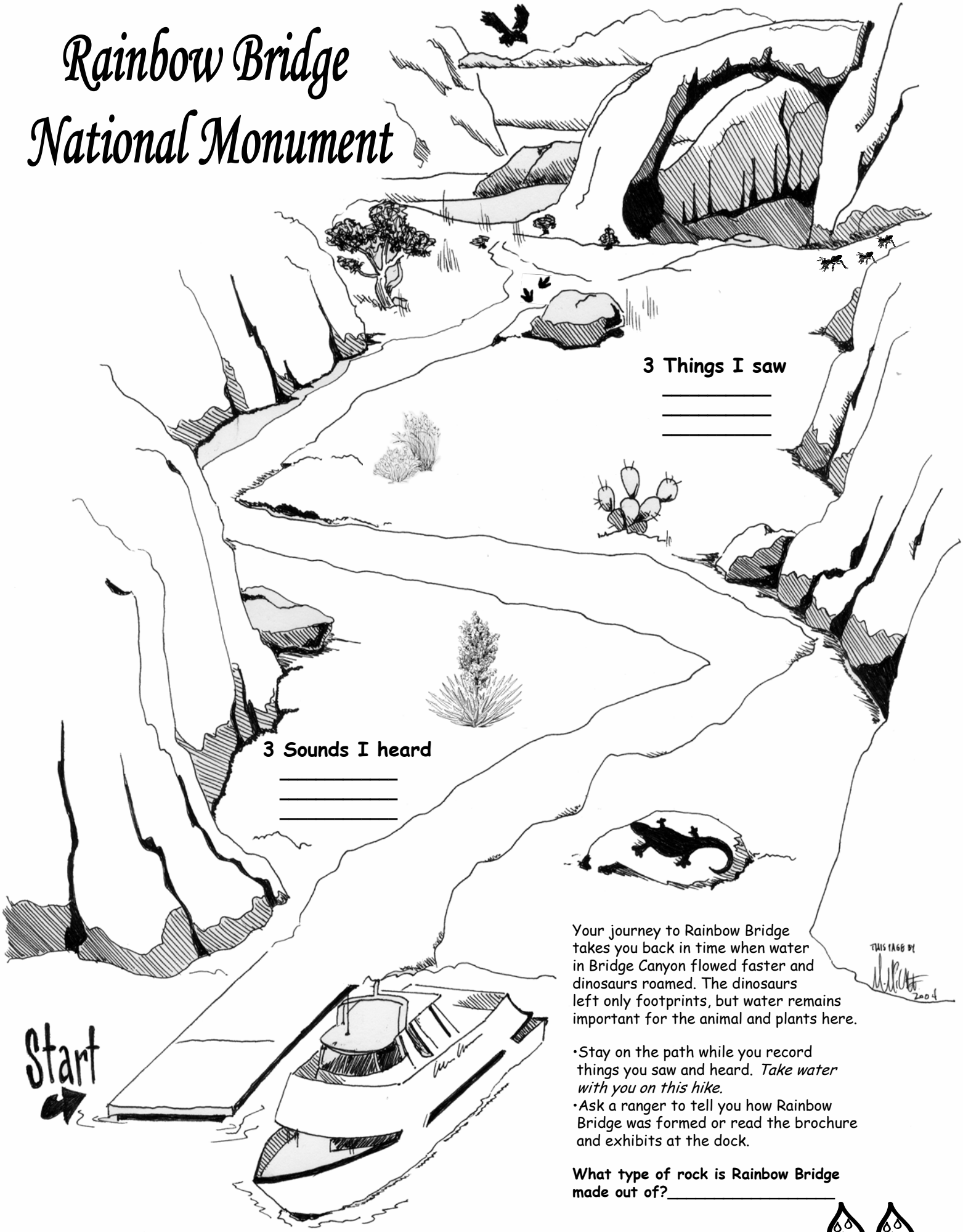


Rainbow Bridge National Monument



Your journey to Rainbow Bridge takes you back in time when water in Bridge Canyon flowed faster and dinosaurs roamed. The dinosaurs left only footprints, but water remains important for the animal and plants here.

- Stay on the path while you record things you saw and heard. *Take water with you on this hike.*
- Ask a ranger to tell you how Rainbow Bridge was formed or read the brochure and exhibits at the dock.

What type of rock is Rainbow Bridge made out of?_____

Geology Rocks

Mesas and plateaus erode into domes, buttes, cliffs and arches with the constant help from their long time partners-water and wind. This area would look very different without these 2 forces at work.

Give the name of the main river that helped carve these rock formations?

_____

Where do you think all of this eroded material has gone?

_____

Where did the sand on the beaches come from?

_____

Use a park map to find the names of 2 buttes, arches or domes. Wahweap and Bullfrog Bays have many examples. Ask a ranger or boat captain to help you.

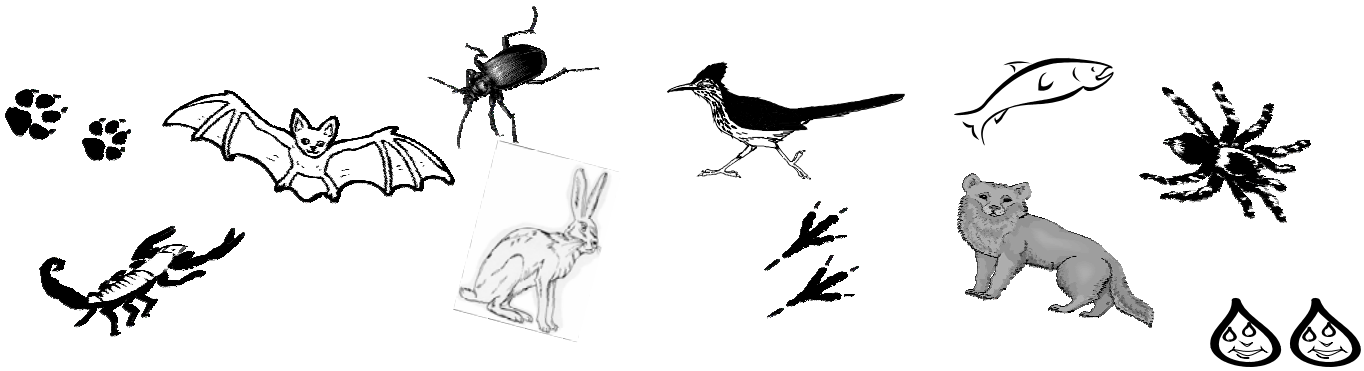
_____

_____

Shhh..... Did you just see something?

Whether you are on the lake, the river, or land, you will see some amazing animals that live here. Record the ones you see. Draw a water droplet near those animals that need lots of water to survive. Many of the animals that live here are nocturnal so you might need to go out after dark to see them. Take a flashlight and your parents with you. Stay on the path while you walk softly and listen carefully. Also, see how many pictures you can label below.

Reptiles	Birds	Insects	Mammals
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____



For information about Glen Canyon NRA and Rainbow Bridge NM:

- •http://www.nps.gov/glca/pphtm/contact.html
- •http://www.glencanyonassociation.org
- •Read our park newspaper
- •Visit bookstores inside our Visitor Centers

On-line information about the Junior Ranger Program in other parks:
http://www.nps.gov/learn/grgozone/grgozone.htm
http://www.nps.gov/webrangers

Didn't finish your booklet?
No Problem

Just complete your Jr. Ranger booklet and send it back to us. We'll send your badge and certificate. Mail your booklet to:

Glen Canyon NRA
Interpretive Division
Carl Hayden Visitor Center
P.O. BOX 1507
Page, Az. 86040

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