



Hueco Tanks

STATE PARK AND HISTORIC SITE



JUNIOR RANGER PROGRAM

Hueco Tanks

State Park and Historic Site

Junior Ranger Program

Recommended for ages 5 to 13

Welcome to Hueco Tanks State Park and Historic Site. We are glad you have taken the time to visit us and hope you enjoy your tour of this very special place.

The Junior Ranger Program is specially designed for people like you. Part of your job will be to help take care of our Texas State Parks and to tell other people to take care of them, too. The parks belong to all of us and we want you to be able to bring your children here someday.

Start your adventure of becoming a Junior Ranger by going through the Interpretive Center exhibits. Be sure to watch the orientation video because it will help with some of the questions. On your trip, you will hike and learn about pictographs. You will also learn to identify plants and animals. As you tour the site keep your booklet with you. You never know when you might find an answer. The challenge for you is to complete as many of the activities as possible, but you must complete at least six to be considered a Junior Ranger.

If you need any help, just ask your parents or ask a ranger for assistance. When finished, take your booklet to a ranger in the Headquarters building or at the Interpretive Center. Be prepared to answer any questions that the ranger may ask. Once finished, you will receive a certificate of completion and a patch.

JUNIOR RANGER PROMISE

As a Junior Ranger, I promise to:

Assist in making Hueco Tanks State Park and Historic Site and other parks better for those who visit after me.

Protect all cultural and natural resources on public lands and in the world around me.

Learn more about parks and similar areas including their cultures, plants, animals and historic features.

Share with others what I have learned about these special places.

Signed: _____

Fun Fact: There are 15 species of lichen at Hueco Tanks. What is lichen? **Ask a ranger.**



People come to Hueco Tanks from all over the United States and the world.

1. Circle and name your home state or country.

2. Trace your travels from your home to Hueco Tanks State Park and Historic Site.

3. What has been the most fun during your travel?

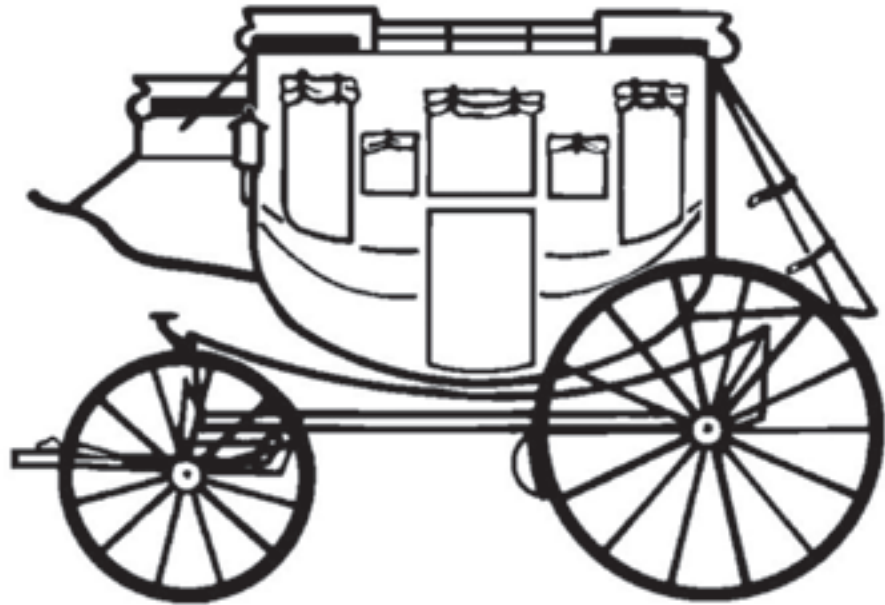
4. What is a park or historic site close to your home?

Fun Fact: There are over 270 rock art sites at Hueco Tanks.

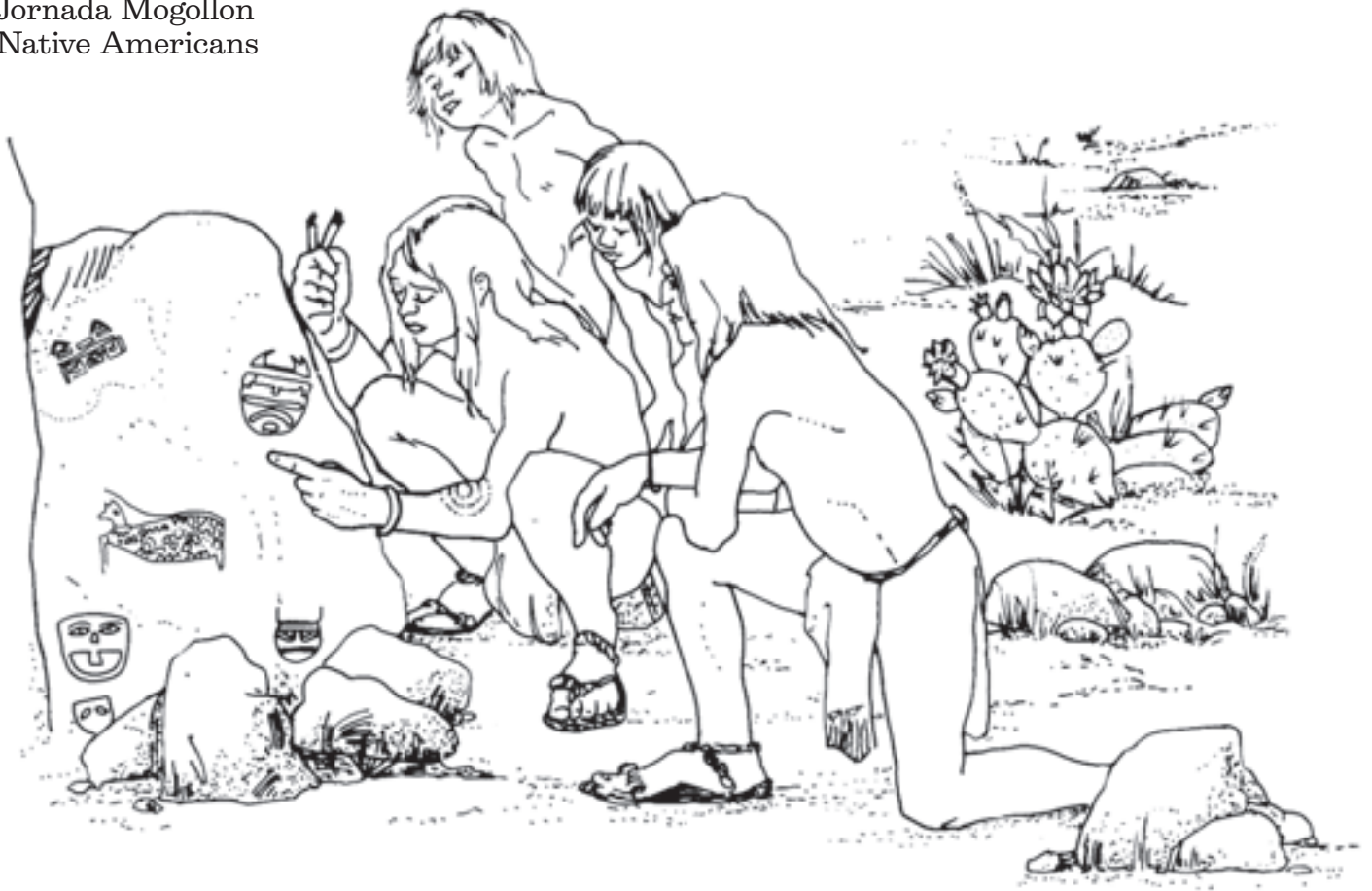
Coloring Activity

Using the crayons in the Interpretive Center, color the following to the best of your ability.

Stagecoach



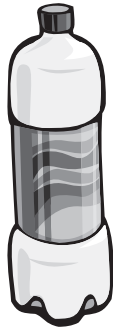
Jornada Mogollon
Native Americans



Fun Fact: A type of stagecoach that came through Hueco Tanks was the “mud wagon.”

Safety Activity

Match each sentence to “DO” or “DON’T DO.” Hint: The drawings will guide you.



Bring a hat.

Bring water.

Throw rocks.



Touch pictographs.

Put on sunscreen.

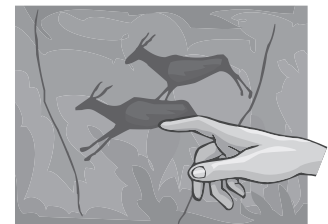
Have fun.

Hike alone.

Follow trails.

Take rocks or other objects.

Leave trash.



Fun Fact: The dark coating on rocks at Hueco Tanks is called *patina*.

Interpretive Center Activity

Hueco Tanks is a crossroads in time. For thousands of years the water in the huecos has allowed both plants and animals to live here, in the middle of a desert. Ancient people who passed through here hunted bison and other animals. Then, as many centuries passed, Native American groups came to Hueco Tanks and painted their stories on these rocks. The Butterfield Stagecoach route passed through Hueco Tanks on the way to deliver mail between the east and west. Later on, the Escontrias family ranched here. Today, we come to Hueco Tanks to learn about other cultures and to have fun!

Complete all questions. If you need help, ask a ranger.



Find the Escontrias Ranch House.

How old is it? _____ years old.

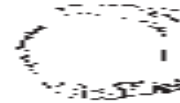
Silverio's wife was _____ Escontrias. She had _____ children.



Watch the orientation video. *Hueco* means _____.

Name the three mountains here: _____, _____ and _____.

Find an artifact like this, called a _____ point.



Locate a puma skull. Pumas eat _____.

See a grinding stone? These were used to grind _____.

Name four other artifacts from the Interpretive Center.

1. _____ 2. _____ 3. _____ 4. _____

You found the _____ and _____ most interesting.

Fun Fact: Hueco Tanks mountains are close to 400 feet above the surrounding area.

Word Find

In the puzzle, find and circle the **28 words** listed below. Each word is related to the history of Hueco Tanks. Remember that words may be spelled forward, backward or diagonally.

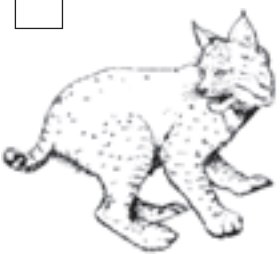


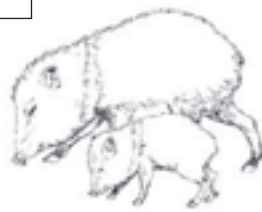






F N I R D P O A S I S T M Z
 O O T X A M H A W K Y R O B
 P H X U M I U H M N U B L N
 I C G E K R N C L A C H I R
 C I R R R H T A G T C P P A
 T K E M A S K O N V A Y N N
 O I T X P O I C O U F L E G
 G O A B O B K E L L D G H E
 R W W C A F W G L T R O C R
 A A E R K L A A O U A R I M
 P U T O C T H T G R Z T L L
 H A P A C H E S O E I E O I
 S J O R N A D A M I L P V O
 O L A F F U B G A T H E R N

Word List

Jornada	Dam
Mogollon	Oak
Hueco	Tank
Mask	Hawk
Apache	Yucca
Water	Lizard
Stagecoach	Petroglyph
Shrimp	Lichen
Kiowa	Oasis
Tigua	Park
Fox	Ranger
Rain	Buffalo
Hunt	Lion
Gather	Pictograph
Vulture	

Animal Tracks

If you see tracks along the trail, see if you can identify the animal that made them and check them off.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				
				
Bobcat	Coyote	Raccoon	Javelina	Cottontail

Fun Fact: Hueco Tanks was once part of a ranch with thousands of acres.

History Activity



Complete the maze below. As you do, you will learn about the history of Hueco Tanks.



IN

OUT

Becomes a state park in 1969.

Paleo Indian hunters here 8000–6000 B.C.

Jornada Mogollon at Hueco Tanks 600–1500 A.D.

Desert Archaic Indians here 6000 B.C.–200 A.D.

Escontrias Family ranches at Hueco Tanks 1898–1956.

Buffalo Soldiers, late 1800s.

Stagecoach stop 1858–1859.

Fun Fact: People have lived periodically at Hueco Tanks for at least 10,000 years.

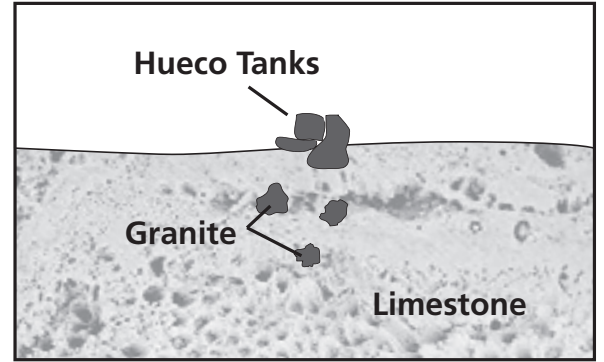
Geology Activity

Hueco Tanks was formed about 35 million years ago, during the *Tertiary Period*. Magma pushed up into *limestone* and cooled into *granite*. Then, the limestone was eroded, leaving the 400-foot-high piles of granite boulders, which we call Hueco Tanks.

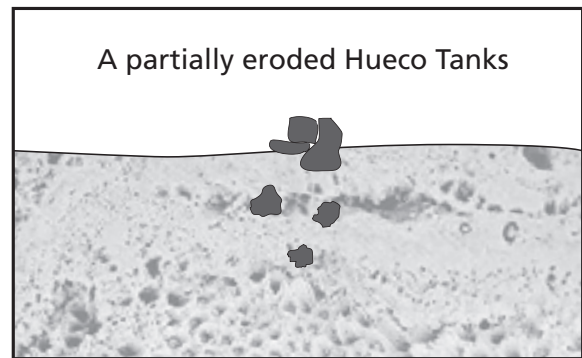
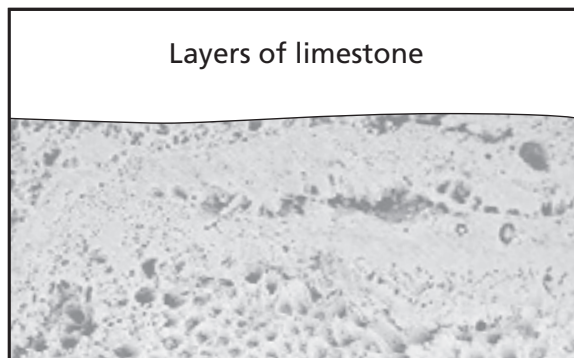
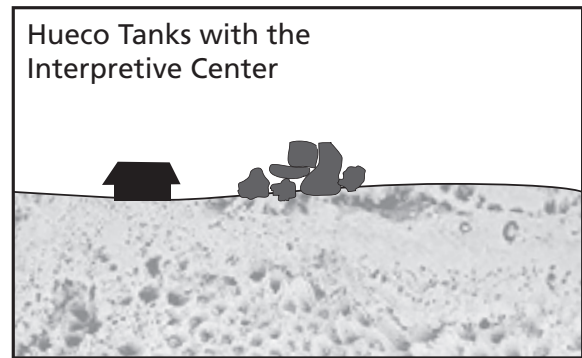
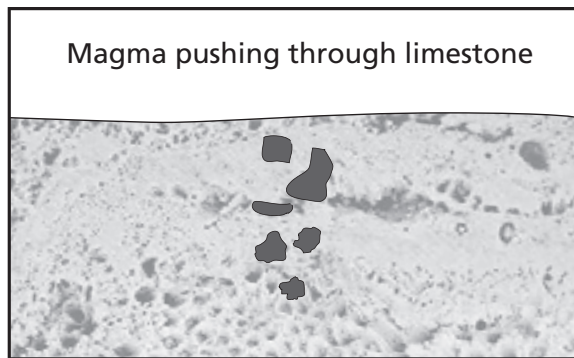
Tertiary Period – Era when humans first appeared.

Limestone – A rock formed from ancient seas.

Granite – A rock formed from cooled magma.



Number the pictures “1” through “4” in the order that they happened.



Fun Fact: The type of granite in Hueco Tanks is called syenite porphyry.

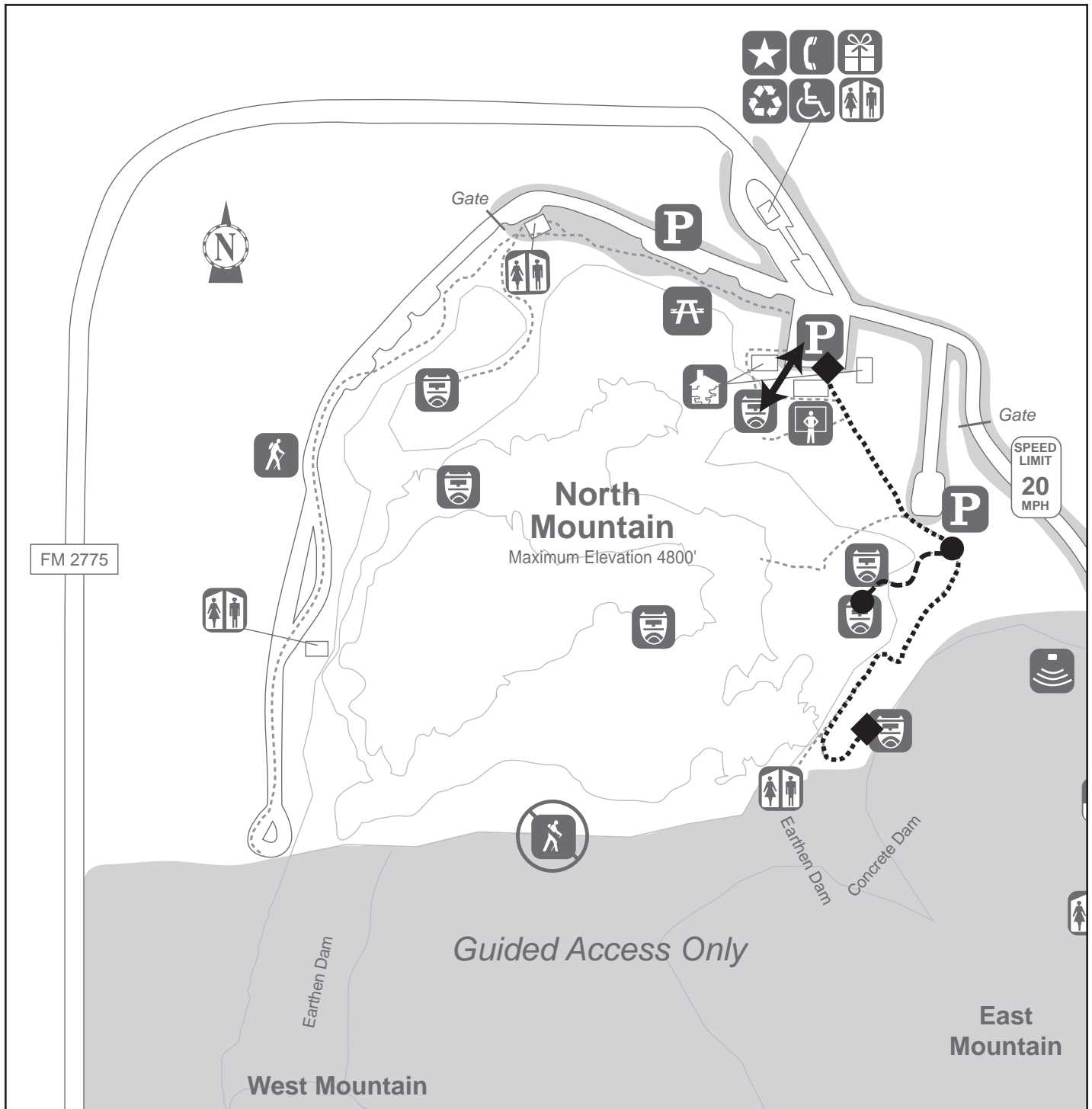
Hiking Activity

At Hueco Tanks there are many places to hike.

In this activity, you can take a ranger tour or take one of the hikes below.

The \longleftrightarrow trail is short, but the $\bullet\text{---}\bullet$ and the $\blacklozenge\text{---}\blacklozenge$ trails are longer.

Trace the trail(s) that you will take. All trails will take you to pictographs.



Fun Fact: A jackrabbit raises its ears to help it cool off.

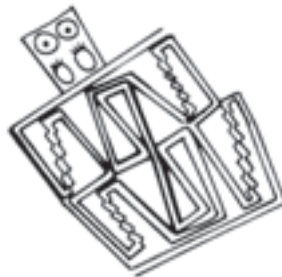


Pictograph Activity

A pictograph is an ancient painting on stone. Archaeologists do not always know the meanings of pictographs, so they often have to look for clues, like solving a mystery. Never touch or otherwise harm a pictograph; they are very fragile and cannot be replaced.

Draw what the pictograph you see looks like.

Write what you think the pictograph means, and why.



Fun Fact: A **petroglyph** is a carving, and a **pictograph** is a painting on stone.

Pictograph Activity

Complete one of the two following activities.

The Native Americans who painted the pictographs couldn't just go to the store and buy paint. They had to make it themselves. Look at the pictograph and figure out what they used as colors in their paint.

Circle the colors you see and what they might be made from.

- White** white clay, calcium carbonate, gypsum
- Yellow** limonite
- Red** hematite or ochre
- Orange** a combination of yellow and red
- Black** carbon or manganese
- Green or Blue** copper rich rocks (malachite, azurite or turquoise)



Desert Archaic pictographs include geometric shapes, comb designs, and animals running, sometimes with a spear in them. People are drawn with hour-glass-shaped bodies.

Jornada Mogollon pictographs include “masks” that look like faces, geometric shapes, animals and “blanket” designs (rectangular, with zig-zags or other shapes inside).

Historic pictographs are more recent, and they often include human figures and horses.

Which Native Americans created the ones you see? Check the box you think is correct.



- Desert Archaic
- Jornada Mogollon
- Historic



Fun Fact: The Escontrias Ranch House was built in 1898.

Animal Find

Here are some animals that you might find in the park.

If you find one, check off the square.

Remember, do not touch, feed or disturb them!



Lizard – A reptile with legs and a tail, that enjoys lying in the sun. You might see them scurrying down the trail.



Fairy Shrimp – A freshwater shrimp found in huecos.



Western Diamondback Rattlesnake – A rattlesnake with dark diamonds on its back. **Never approach a rattlesnake.**



Javelina – A wild grey pig-like animal that sometimes eats cactus.



Pallid Bat – A type of bat with large ears, seen at evening.

If you see any other types of animals, describe what they look like and name them, if possible.

Fun Fact: Although they look like pigs, javelina are **not** closely related to them.

Plant Find

Here are some plants that you might find in the park.
Remember, do not damage or remove plants or plant material.
See how many you can find; then check them off.



Prickly Pear – A cactus with pad-like stems.
Javelina enjoy eating these plants.

Cottonwood – A tree with a cotton-like material around the seed. Native Americans used this tree for medicine.



Creosote – A bush with small, rounded yellowish-green leaves. This plant is very common at Hueco Tanks.

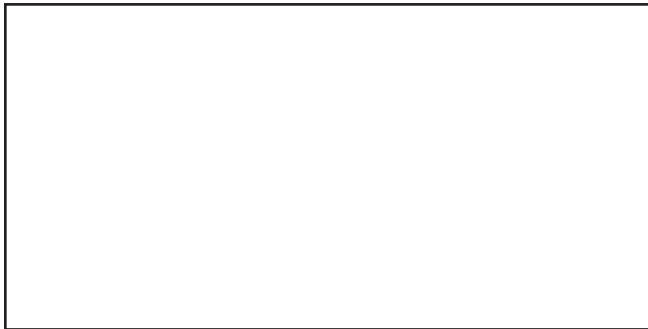
Mesquite – A tree with light-green leaves and thorns. Animals can eat mesquite fruits (sometimes called beans), and Native Americans did, too.



Describe and/or draw two more plants that you have seen at Hueco Tanks.

1. _____

2. _____



Fun Fact: Hueco Tanks is the only place known in the United States where the rare Comal Snakewood grows. What is it? **Ask a ranger.**

Bird Activity

There are lots of birds at Hueco Tanks.
Sit by the pond near the Interpretive Center, and look for birds.
Below are some common birds. If you see one of them, circle it.



Turkey Vultures are large birds, often seen soaring overhead.



Male **House Finches** have red heads.

Rock Wrens are grey, and have pointy beaks.



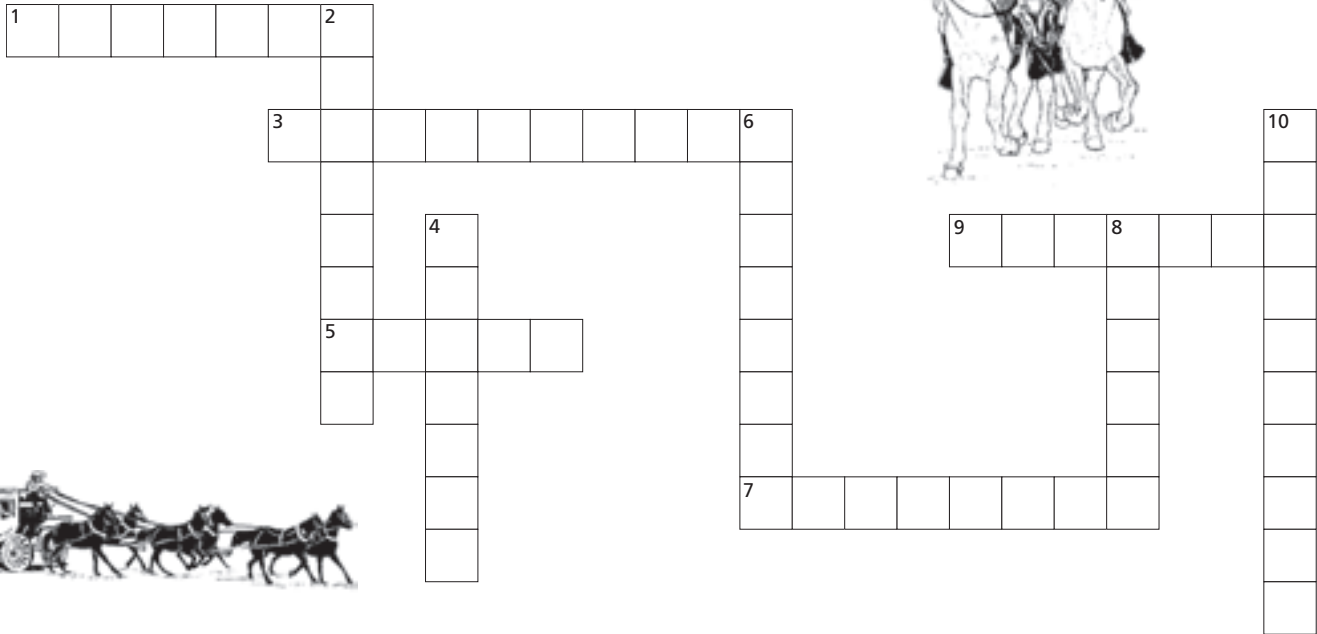
Verdins have yellow faces.



If you didn't see one of these birds, draw the bird you did see in the space below. Then describe it.

Fun Fact: More than 200 species of birds have been recorded at Hueco Tanks.

Crossword Activity



Across

- Black troops at here in the 1800s were ___ soldiers.
- A ___ is a Native American carving into rock.
- ___ Mountain is in the self-guided area.
- Hueco Tanks is wonderful rock and boulder ___ site.
- The Desert ___ Indians painted hunting scenes.

Down

- The Butterfield ___ Stage stopped at Hueco.
- The ___ Mogollon made painted masks here.
- Hueco Tanks is a State Park and ___ Site.
- There are great trails here for ___.
- The ___ Family began ranching here in 1898.

Interview Activity

Find a park staff member or a park volunteer, and if their time permits, conduct a short interview.

Name of staff member or park volunteer: _____

What is their main job? _____

What other duties do they perform? _____

Their favorite part of Hueco Tanks is: _____

Fun Fact: There are 53 species of mammals at Hueco Tanks.

When you're finished...

... take your booklet to a ranger in the Headquarters building or at the Interpretive Center. Be prepared to answer any questions that the ranger may ask. Once finished, your certificate will be signed and you will receive a patch.

This Junior Ranger Program was developed by
Jack Bargemann and the staff of
Hueco Tanks State Park and Historic Site.

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Jack Bargemann and Public Donations.

For further information or comments please contact:

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(915) 857-1135

www.tpwd.state.tx.us/huecotanks



Certificate of Achievement

THIS CERTIFIES THAT



IS AN OFFICIAL
JUNIOR RANGER AT
HUECO TANKS
STATE PARK AND
HISTORIC SITE

RANGER SIGNATURE

DATE



4200 Smith School Road
Austin, Texas 78744

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