

# JUNIOR RANGERS AT OREGON CAVES

NATIONAL MONUMENT & PRESERVE

## Activity Book



THIS BOOK BELONGS TO:



# OREGON CAVES

## NATIONAL MONUMENT & PRESERVE

# JUNIOR RANGER BOOK

Welcome to Oregon Caves National Monument & Preserve!  
Use the activities in this book to become an official Junior Ranger.

Junior Rangers help protect natural and cultural treasures in all national park sites, and back home in their own communities. Depending on your age, you will need to complete a certain number of activities to become a Junior Ranger:

**AGES 6 AND UNDER** should complete at least **3** ACTIVITIES

**AGES 7-10** should complete at least **5** ACTIVITIES

**AGES 11 AND ABOVE** should complete at least **7** ACTIVITIES

Going on a tour counts as **1** ACTIVITY

Find a ranger to show them your completed activities.  
Then you can get sworn in as a Junior Ranger!



Hi! My name is Flaps.  
I'm a Townsend's big-eared bat.  
I'm very choosy about where I roost.  
The caves here are ideal for me!  
I will be your guide as you complete  
the activities to become a  
Junior Ranger. If you need help,  
just ask any of my ranger friends!  
You can find them around the  
visitor center.

# THE NATIONAL PARK SERVICE

Have you seen park rangers wearing this on their sleeves? It's the symbol of the **National Park Service** and stands for all the things that rangers work to protect!

You might not see all the objects on the symbol here at the Oregon Caves, but there are many things worth protecting.

What do you want to help protect here as a Junior Ranger?

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**2** WHAT DO YOU THINK EACH PART REPRESENTS?

**THE SEQUOIA TREE:**

1. \_\_\_\_\_

**THE MOUNTAIN:**

2. \_\_\_\_\_

**THE LAKE:**

3. \_\_\_\_\_

**THE BISON:**

4. \_\_\_\_\_

**THE ARROWHEAD SHAPE:**

5. \_\_\_\_\_

Answers on the right.

**1** Draw your own symbol that represents what you think is special about the Oregon Caves.

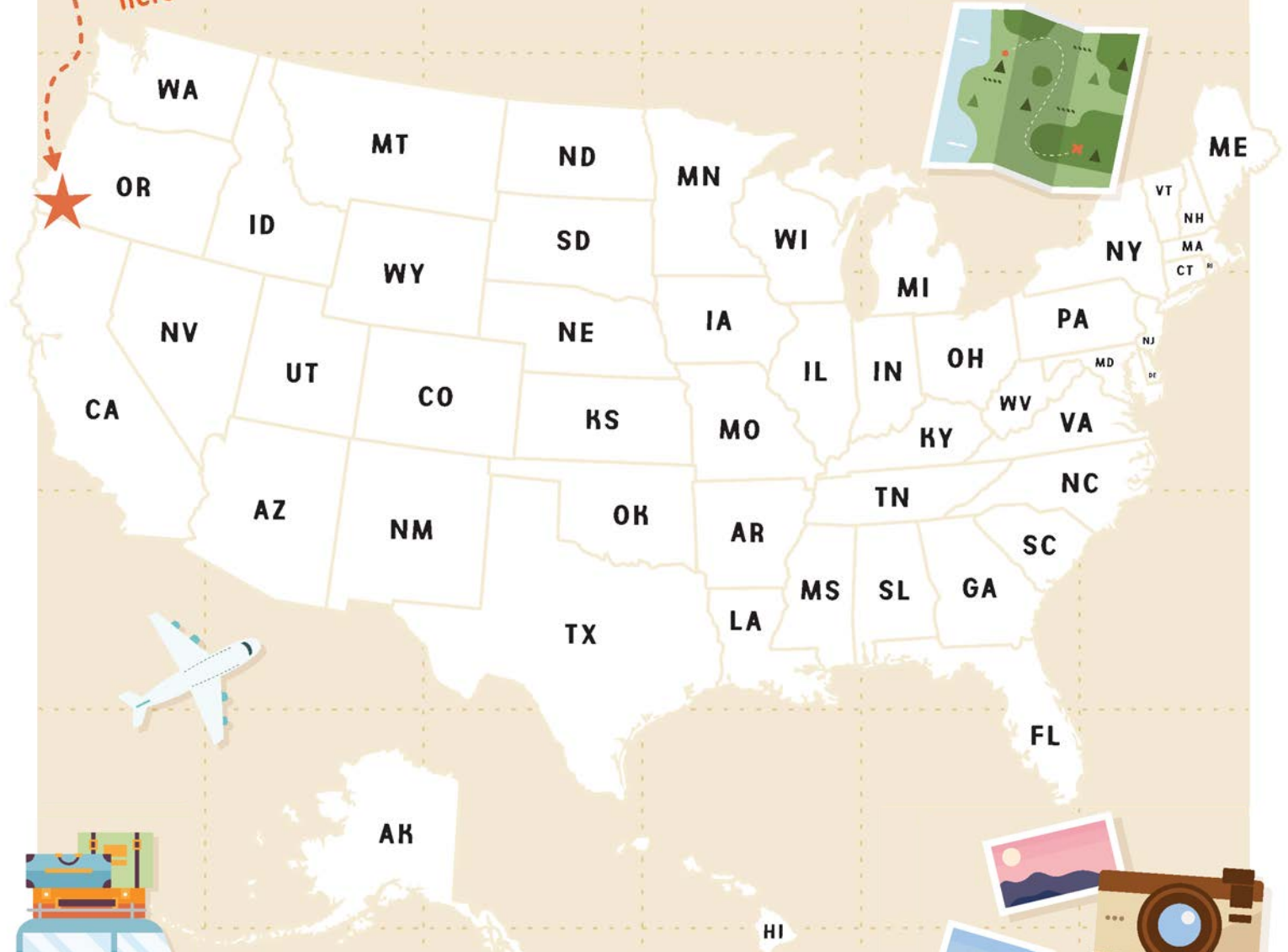


**FUN FACT:**  
The arrowhead symbol was first used on an Oregon Caves brochure in 1952!

1. Precious trees and other plants. 2. Beautiful scenery. 3. Water and recreation. 4. Wildlife. 5. Culture and history.

# EXPERIENCE YOUR PARKS

You are here!



**3** Can you find these things on the map?

## WHERE DO YOU LIVE?

Circle and write down your home state, or write down your home country:

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## HOW DID YOU GET HERE?

Draw the route you traveled from your home to Oregon Caves on the map.

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## WHERE IS YOUR PARK?

What is the national park site closest to your home? Label it on the map or write it here:

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## VISITING OTHER PARKS?

Any other national park visits on this trip? Label it on the map or write it down:

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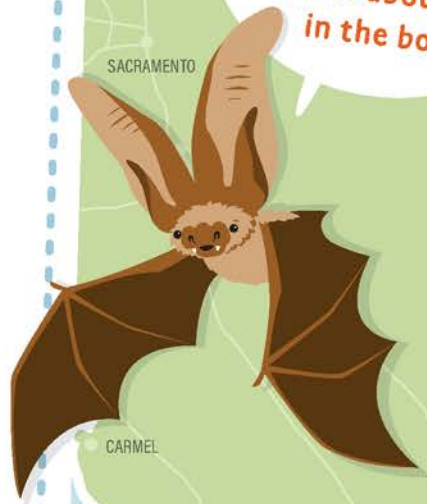
# THE CIRCLE OF DISCOVERY

There are many other parks nearby to explore! Located throughout Southern Oregon and Northern California, these parks are called the **Circle of Discovery**. In these places, you can discover giant trees, deep lakes, volcanoes, waterfalls, and the wonders of the night sky.

**HOW MANY OF THESE PARKS HAVE YOU VISITED? WRITE THE NUMBER HERE!**



**4**  
There's so much to discover at Oregon Caves National Monument & Preserve. What have you seen on your visit so far? A special plant or animal? Draw or write about it in the box!



# CAVE ZONES AND THEIR CRITTERS

**Cave zones** are the different areas of a cave, based on how much natural light is present.

Various animals, insects, and amphibians visit and inhabit each zone.

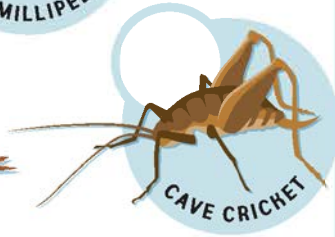
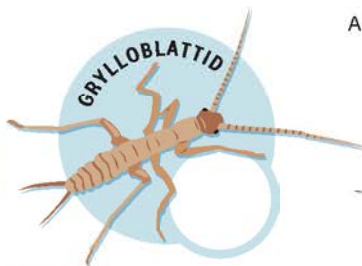
**Troglifauna** refers to the critters that live in and around each cave zone. Many of them have special adaptations to their dark surroundings. There are three types of Troglifauna, one for each cave zone: **trogloxene**, **troglophile**, and **troglobite**.



## 5 CAN YOU MATCH EACH CRITTER TO THE CORRECT CAVE ZONE?

Write the number of the cave zone in the circle next to each critter!

Answers on the right.



Springtail zone 3. Grylloblattid zone 2. Pack rat zone 1. Cave Millipede zone 3. Black bear zone 1. Salamander zone 1. Harvestmen zone 2. Bat zone 2. Pseudoscorpion zone 3. Cave cricket zone 2.

# ABC WALK

6 As you walk around the park, look for things that begin with these letters. What can you find?

Here are some harder letters, just for fun:

I	U
J	V
K	X
Q	Z

- A \_\_\_\_\_
- B \_\_\_\_\_
- C \_\_\_\_\_
- D \_\_\_\_\_
- E \_\_\_\_\_
- F \_\_\_\_\_
- G \_\_\_\_\_
- H \_\_\_\_\_
- L \_\_\_\_\_
- M \_\_\_\_\_
- N \_\_\_\_\_
- O \_\_\_\_\_
- P \_\_\_\_\_
- R \_\_\_\_\_
- S \_\_\_\_\_
- T \_\_\_\_\_
- W \_\_\_\_\_
- Y \_\_\_\_\_





## CAVE WATER MAZE

The most important ingredient in forming the Oregon Caves is **water**. It may start as snow on the slopes above the cave. Water seeps into the ground and into cracks in the rocks. As it flows through the cracks, it dissolves the marble bedrock, making the cracks bigger and bigger, until a **cave** is created. This has happened over millions of years, slowly forming the rooms and passages we know today. The water then flows out of the caves, down the mountain, and into the Illinois River.

- 7** Follow the water's path through the maze of cracks and passageways beneath the mountain! Can you find your way out?



# CAVE & HIKING SAFETY

8

There are specific items you need to go safely caving. Circle the supplies that a good caver would take on a spelunking adventure.

WHAT SHOULD YOU BRING?



STURDY BOOTS



DOG



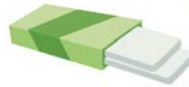
COMB



SHORTS



SWIM SUITS



GUM



HARD HAT WITH LIGHT



A COUPLE OF FRIENDS



GLOVES



OVERALLS



CHICKEN



EXTRA LIGHT SOURCES



EXPERIENCED CAVER



WATER



RAKE



SNACKS



20-FOOT ROPE



FIRST AID KIT



STURDY CLOTHES



PICK OR AXE



SANDALS



TOYS



RANGER HAT

# SPELEOTHEM MATCH-UP

**9 CAN YOU MATCH THEM?**  
WRITE A NUMBER FROM  
THE DESCRIPTIONS BELOW  
NEXT TO EACH FORMATION.

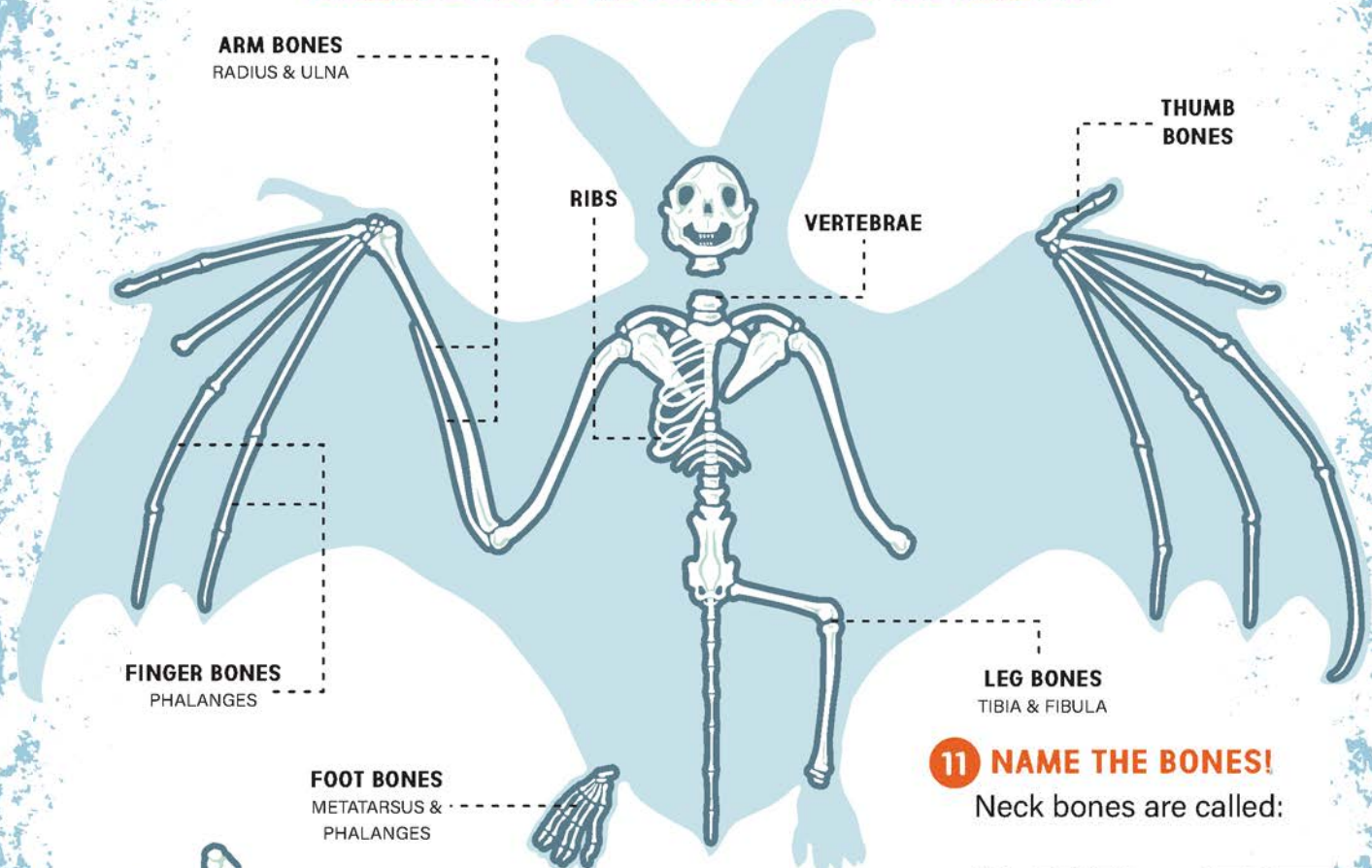
These are  
**SPELEOTHEMS** -  
cave formations  
made from water &  
mineral deposits!

- 1 Stalactites** are icicle-like formations that hang from cave ceilings, made by the mineral deposits of dripping water.
- 2 Stalagmites** are upward-growing mounds of mineral deposits from water dripping onto the floor of a cave.
- 3 Straws** are small, hollow, thin stalactites, growing straight down from the cave ceiling.
- 4 Columns** are created when stalactites and stalagmites grow into each other.
- 5 Flowstone** is formed where mineral-rich water flows down the curved walls and floors of a cave in smooth, rounded shapes.
- 6 Draperies** can happen when flowstone hangs along the top curve of a cave, creating curtain-like ripples and folds.
- 7 Rimstone Dams** can look like stairs on cave floors, formed by pooling water.
- 8 Cave Popcorn** small, round shapes from water splashing onto the cave floor from high above.

# MISSING BONES

Townsend's big-eared bats have used the Oregon Caves to roost and hibernate for many years. Sometimes we find their bones and can piece together an entire bat skeleton. But this skeleton is all jumbled up! Can you figure out where each bone belongs?

**10 DRAW EACH MISSING BONE, OR DRAW A LINE CONNECTING THE JUMBLED BONES TO THE CORRECT PART OF THE SKELETON.**



**11 NAME THE BONES!**

Neck bones are called:

\_\_\_\_\_

Finger bones are named:

\_\_\_\_\_

Foot bones are:

\_\_\_\_\_

Arm bones are called:

\_\_\_\_\_

Leg bones are:

\_\_\_\_\_



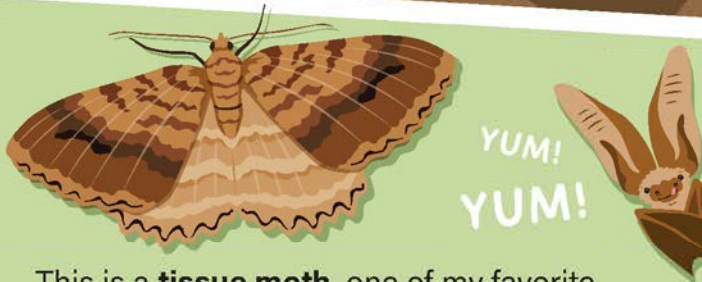
## 12 EXHIBIT EXPLORATION

Now you can explore the cave exhibit in our visitor center. Look around in the passages of the exhibit to answer these questions.



My larger cousins, the **big brown bats**, live here at the caves, too! How much do they weigh?

ANSWER

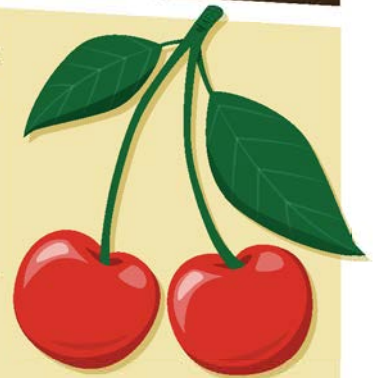


YUM!  
YUM!

This is a **tissue moth**, one of my favorite things to eat! Find the video of me catching one. What part of my body do I use to catch the moths while flying?

\_\_\_\_\_

There's a creature here that sometimes smells like **cherries**! What creature is it?



How does it make this scent?

\_\_\_\_\_

You can sometimes hear these birds calling to each other around the park.

What bird is it? \_\_\_\_\_

How would you describe the **sounds** they make? \_\_\_\_\_



### NOW THAT YOU HAVE EXPLORED THE EXHIBIT...

What did you learn that surprised you?

\_\_\_\_\_  
\_\_\_\_\_

What are you most excited to tell your friends about?

\_\_\_\_\_  
\_\_\_\_\_

# CAVE CROSSWORD

**13** Test your Oregon Caves National Monument & Preserve knowledge by completing the crossword puzzle!

Answers on the right.



## ACROSS

- 1** Be sure to wear \_\_\_\_\_ clothing in our 44° F (7° C) cave.
- 2** Preserve the past! Observe cultural and historic artifacts, but do not \_\_\_\_\_.
- 4** The Oregon Caves are naturally carved out of what type of rock?
- 9** What mountain range are the Oregon Caves in?
- 10** Take a \_\_\_\_\_ of your clothing before your cave adventure so you can remember what NOT to wear into another cave.
- 12** A Junior Ranger's motto is: \_\_\_\_\_, Learn, Protect.

## DOWN

- 1** The most important ingredient to the formation of the Oregon Caves is \_\_\_\_\_.
- 3** To form a cave, water seeps into the ground and into \_\_\_\_\_ in the rocks.
- 5** Please do not feed the \_\_\_\_\_. Keep them wild!
- 6** What is the only mammal that can fly?
- 7** Eliminate waste and protect your environment! Reduce, Reuse, \_\_\_\_\_.
- 8** We are protecting our bats from a deadly disease called White \_\_\_\_\_ Syndrome.
- 11** Oregon Caves was designated a National Monument in 1909 by President \_\_\_\_\_.

ACROSS: 1. Warm 2. Touch 4. Marble 9. Siskiyou 10. Picture 12. Explore DOWN: 1. Water 3. Cracks 5. Animals 6. Bat 7. Recycle 8. Nose 11. Taft

CERIFICATE OF COMPLETION - YOU ARE NOW A JUNIOR RANGER!



# OREGON CAVES

## NATIONAL MONUMENT & PRESERVE



This certifies that

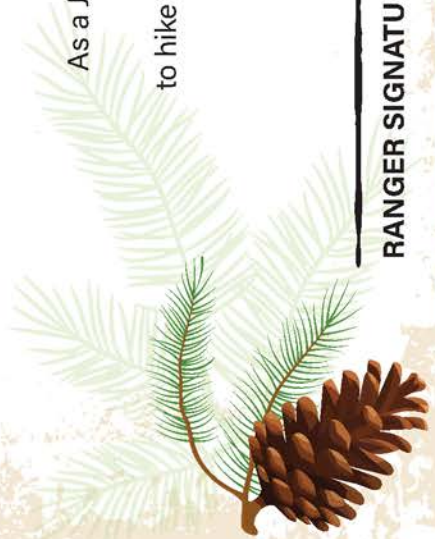
\_\_\_\_\_

has completed the Junior Ranger Program at Oregon Caves National Monument & Preserve and is hereby considered an official

### JUNIOR RANGER

#### EXPLORE · LEARN · PROTECT

As a Junior Ranger, I promise to protect the plants, animals, and rocks of Oregon Caves National Monument & Preserve, to hike safely, and to keep this wilderness beautiful for everyone to enjoy.



\_\_\_\_\_  
RANGER SIGNATURE

\_\_\_\_\_  
DATE



## Enjoy exploring Oregon Caves National Monument & Preserve!

Discover natural habitats, old growth forests, bats and other cave critters, cave formations, and underground rivers. Learn about fossils, geology, and how to go caving safely.

Complete this activity book and you'll be on your way to becoming a Junior Ranger!

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Natural History Association.*



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**OREGON CAVES NATIONAL MONUMENT & PRESERVE**  
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