

Shell Falls Wayside

Activity Fun Book

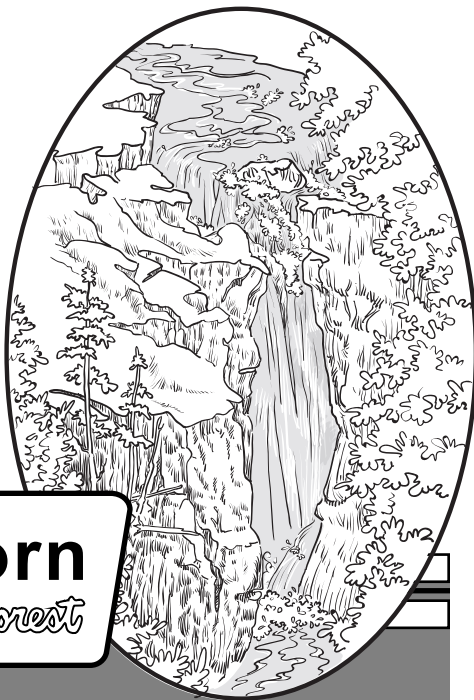


Join Rufous the
Hummingbird
inside for a fun time!

Find out about Shell Falls and
Shell Canyon located on the
Bighorn National Forest in Wyoming.

Work through the
games and puzzles
and don't forget to sign the
certificate of completion at
the end when you finish!

Have Fun!

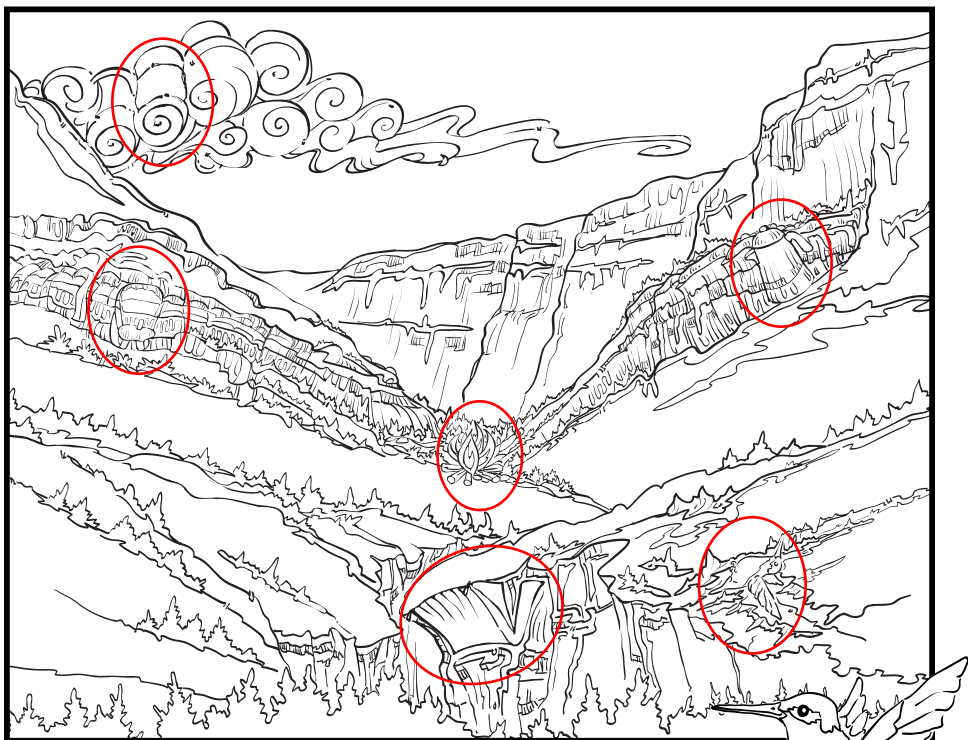


Bighorn
National Forest

Welcome to Shell Falls

Shell Falls is located in Shell Canyon on the Bighorn National Forest. Shell Canyon is named for fossilized shells found in its prehistoric rock layers.

1



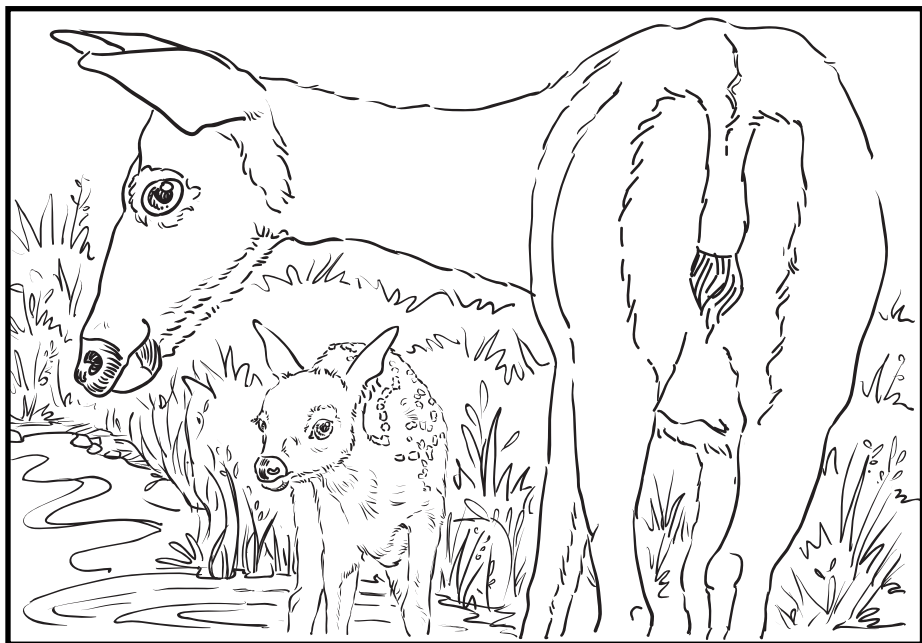
Can you find these hidden objects?



Oasis in the Desert

2

The area around Shell Canyon gets less than ten inches of rain and snow yearly, qualifying it as a desert. Shell Creek's precious water creates an "oasis" where plants and animals can survive and thrive.

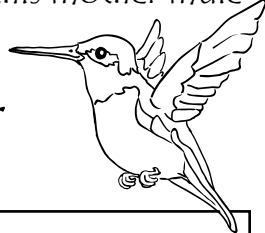


Unscramble the words below to discover why this mother mule deer and fawn need an oasis:

dof
food

trehlse
shelter

ewtar
water



Carving a Course

The large, granite building blocks of Shell Canyon are an extraordinary 2.5 billion years old. The dynamic forces of the waters of Shell Creek carve into the mountain—moving it downstream, one small piece at a time.

3

Biotite

Feldspar

Did you
color these
rocks?

You could
color Rufous
too!

Quartz

Biotite (black), feldspar (pink), and quartz (white) are mineral components found in the granite of Shell Canyon. If you look closely at the granite you can see the three colors. **Can you color these rock drawings?**



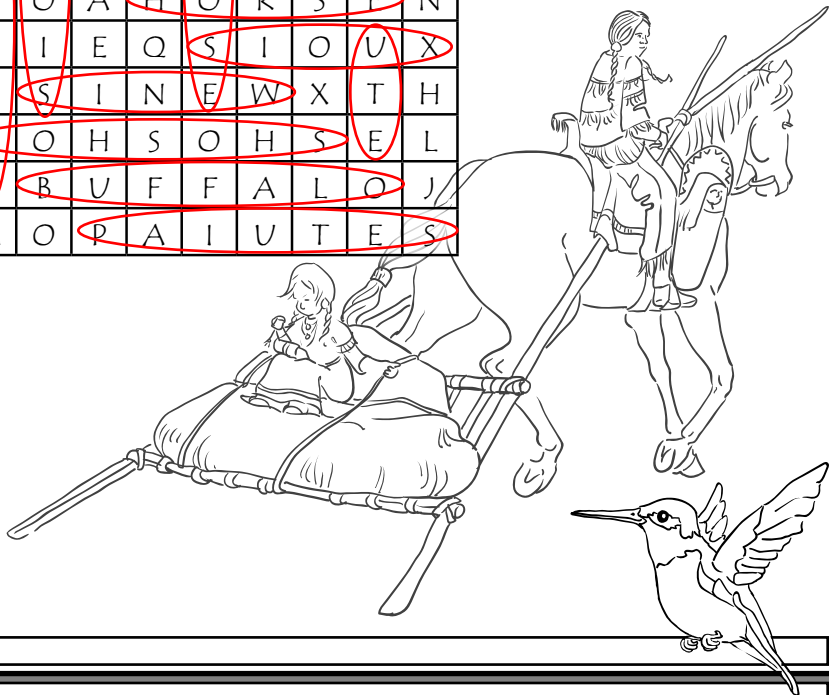
Lifeblood of the West

4

Shell Creek was a pathway of early exploration and travel and a magnet for human settlement. Evidence shows habitation for thousands of years here. Peoples of the Shoshone, Sioux, Crow, and Cheyenne tribes all lived here at one time.

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

Find these hidden words: HORSE, TIPPI, BUFFALO, CROW, SINEW, SIOUX, TRAVOIS, PAIUTES, CHEYENNE, SHOSHONE, APACHE, UTE, PAPOOSE



A 4,000 Mile Journey

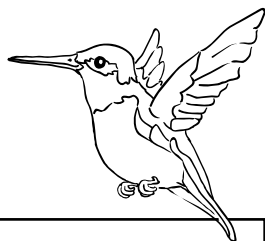
5

When a raindrop or snowflake hits the upper slopes of the Big Horn Mountains it sometimes finds its way with other drops into Shell Creek and over Shell Falls. A 4,000 mile journey then begins which eventually spills into the Gulf of Mexico.



On the map above, can you....

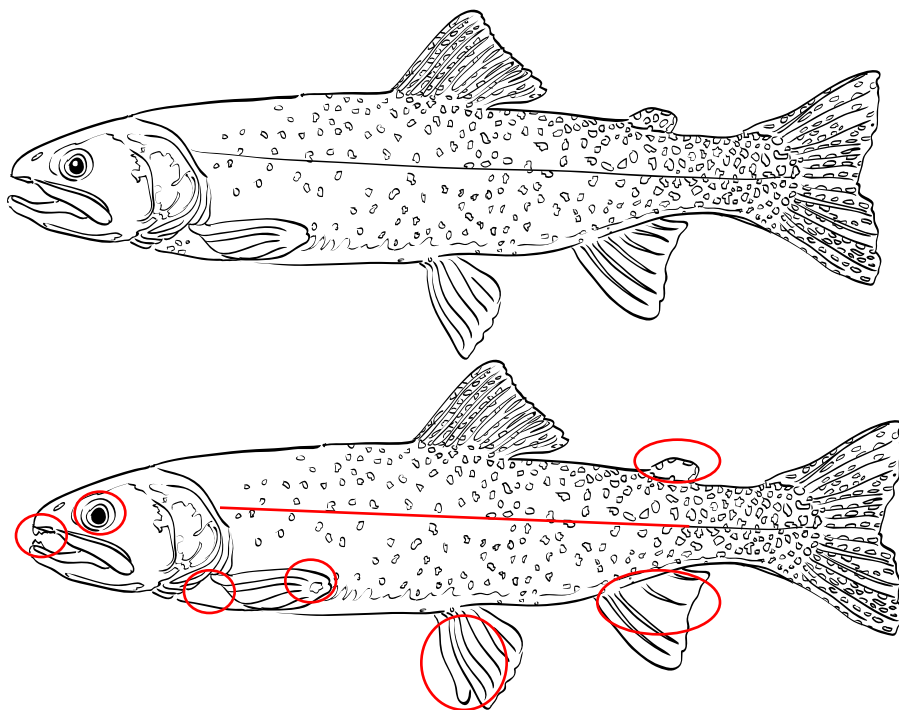
- ♦ **Draw** a wiggly blue line from Shell Falls Wayside to the Gulf of Mexico?
- ♦ **Color** your home state red?



Home Sweet Home

Yellowstone cutthroat trout are a native species to the Shell Canyon area and lived in Shell Creek in the past. Can you spot the 8 differences between the two Yellowstone cutthroat trout below?

6



Native fish like the Yellowstone cutthroat evolved here over a long period of time and only lived below Shell Falls, not above. People put young rainbow and brook trout above the Falls to provide more fishing opportunities. These species went over the Falls and replaced the native Yellowstone cutthroat trout. Today, no Yellowstone cutthroat trout can be found in Shell Creek.

Conserving Our Water



7

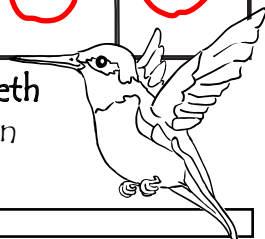
No more water is available on this earth than that which was here millions of years ago. A growing world population places great demands on this vital resource. We must use it wisely and keep it clean.



5-8 gallons
per minute

1-5 gallons
per minute

How much water do you use brushing your teeth if you leave the water running? Follow the open path in the maze to find the correct answer!



Conserving Our Water continued

How many gallons of water does the average person use to take a shower? Color in your answer.



Conserving Our Water continued

Work out the word puzzles below to learn more ways to conserve water. (The answer to the first word and other hints have been added for you)

1.

Fi +

- a & e

How to do Hint:

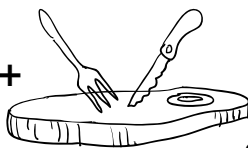
[Fi + (axe) = Fiaxe] - a & e =

Fix



water

I +



- st

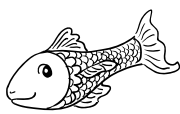
[I + (steak) = Isteak] - st =

leak s

2.



Run



- ish

+ ull

full

I +



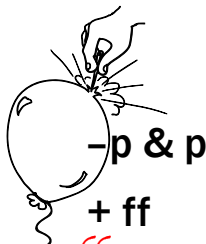
- t

load s



in the dishwasher

3.



- p & p

+ ff

Turn

off



water

W +



when



brushing

teeth

CERTIFICATE OF COMPLETION



Congratulations!

Rufous the Hummingbird says “Good Job!” completing the Shell Falls Wayside Activity Fun Book. He encourages you to continue to learn about your world wherever you go!

Sign your name and record the date to make your certificate complete. Thank you for working hard and learning alot!

Pat yourself on the back and sign your name. You finished!

Your Name

Date

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