

Yellowstone Creation Adventure

Junior Geologist Activity Book
Cub Level

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Hello! Welcome to the Yellowstone Creation Adventure! This special journal has all kinds of activities for you to do, and when you complete them, you will receive a Certificate in Biblical Geology! It is ok to have your parents help you with the answers, and write them down. So let's get started!

If you want to understand Biblical geology, there is a very important verse that you need to learn - Genesis 7:11. Can you memorize this verse?

"In the six hundredth year of Noah's life, in the second month, on the seventeenth day of the month, on the same day all the fountains of the great deep burst open, and the floodgates of the sky were opened."

Not sure how to start doing this? Let's try it this way. Say the words that belong in the blanks. Get somebody in your family to help you. After you have done this several times, you will have a good start on memorizing it!

In the _____ year of Noah's life, in the _____ month, on the _____ day of the month, on the same day all the _____ of the _____ burst open, and the _____ of the sky were _____.

Check this box when you have it memorized.

Hydrothermal Features

The word *hydro* means *water*. And *thermal* means *hot*. So when we talk about the hydrothermal features of Yellowstone National Park, we are talking about the hot water features in the park, like hot springs, geysers (spouting hot springs), mudpots (muddy hot springs) and fumaroles (steam vents).

Hydro = _____

Thermal = _____

Hydrothermal = _____

One of the most popular *hydrothermal* features in Yellowstone is **Old Faithful Geyser**. It erupts many times a day, but it is not as regular as you might think. The time between eruptions can be as much as 90 minutes, or as little as 35 minutes.

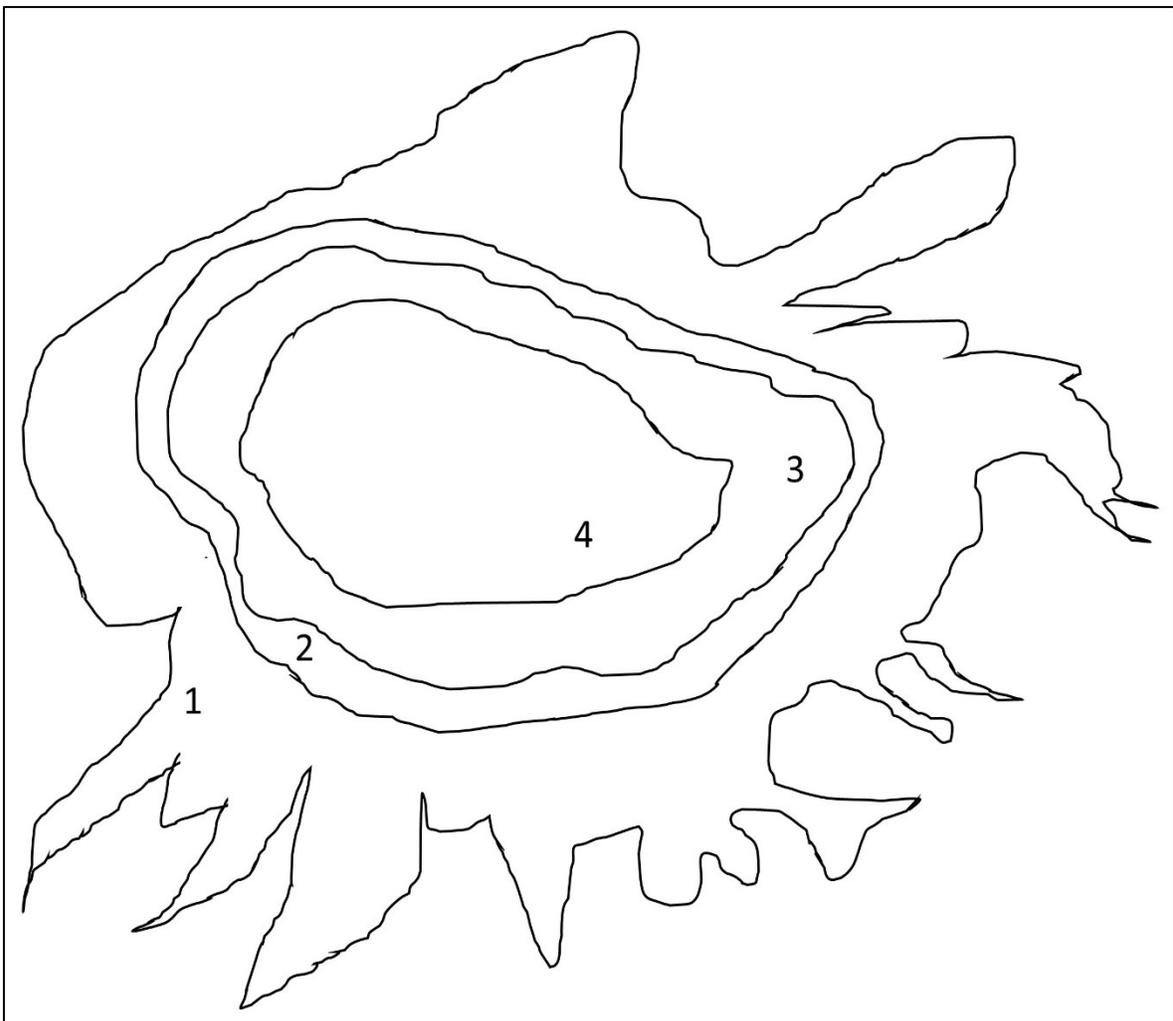
Grand Prismatic Spring is in the Midway Geyser Basin. It is the largest hot spring in the US. And it is very colorful! Use the following guide to create your own masterpiece!

1 = orange

2 = yellow

3 = green

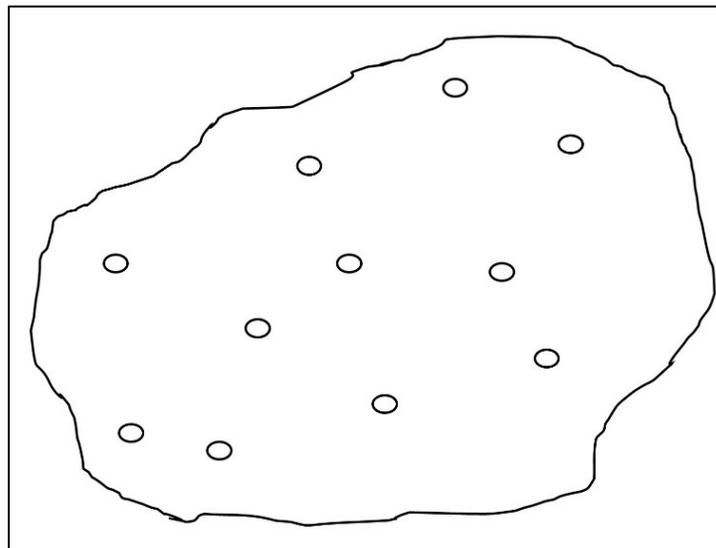
4 = blue



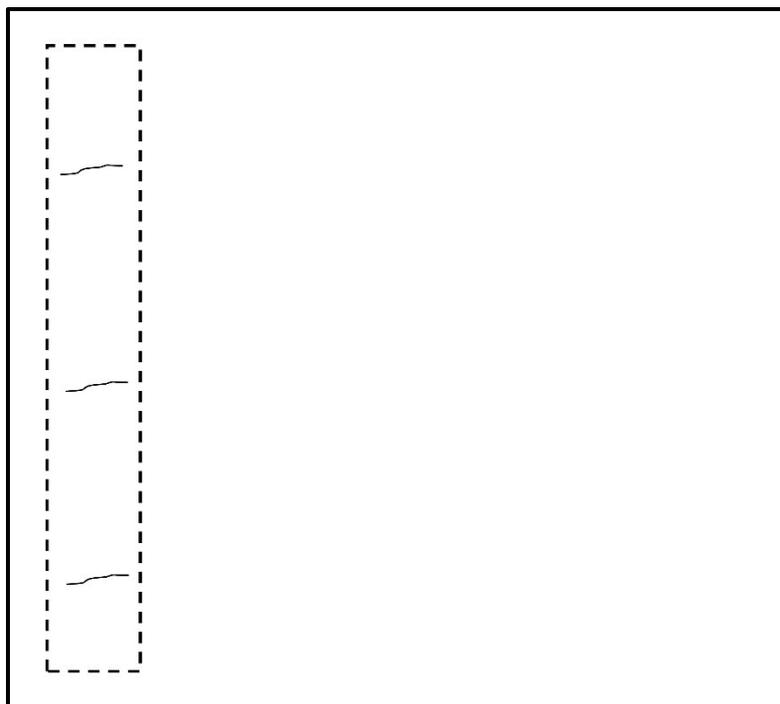
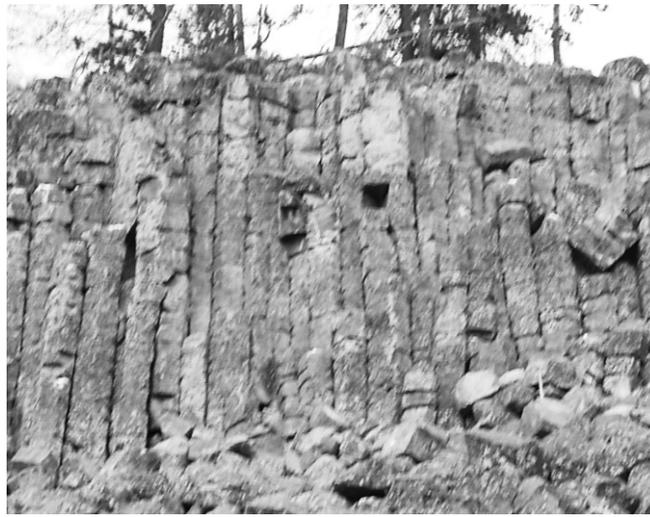
Rocks of Yellowstone

There are many different rock types in Yellowstone National Park. We are going to look at a few of the most abundant ones.

Rhyolite lava (rye-uh-lite) is a light colored lava. Sometimes it is grayish and sometimes it is pinkish. And you can see small pieces of white or clear quartz in it. Can you color your own rhyolite?



Basalt lava (buh-salt) - Sheepeater Cliff is a basalt lava flow. Basalt is a black colored rock. Sometimes when it cools, it creates columns, like these at Sheepeater Cliff. Trace the column below, and add your own columns to it! You can add cracks to the column if you like.



Yellowstone Scavenger Hunt

Instructions: During your tour of Yellowstone, check off these items as you see them.

<u>Yellowstone Item</u>	<u>Completed (check off)</u>
Elk	
Trout	
Sinter	
Acidic hot spring	
Erupting geyser	
Bison	
Fumarole	
Mudpot	
Basalt column	
Limestone	
Glacial erratic	
A hissing sound	
A bubbling sound	
Marmot	
Obsidian	
Yellow Columbine (yellow trumpet-like flower)	
Mountain larkspur (purple- ish/blue on a long stem)	
Bald Eagle	