

Yellowstone Creation Adventure

Junior Geologist Activity Book
Wolf Level

This book belongs to

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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. Let's get started!

Yellowstone National Park

Yellowstone National Park is the very first national park in the United States, signed into law by President Ulysses S. Grant in 1872. It is primarily in the state of Wyoming, but it extends into Montana and Idaho.

As amazing a place as Yellowstone is, it was not a part of the original creation. It is a result of the Flood of *Genesis*, and is a constant reminder that the Lord once judged the whole Earth. The Yellowstone area as we know it today, was created by a *supervolcano*. It was so powerful that ash from the volcano has been found as far away as Louisiana! And the ash buried and killed animals as far away as Nebraska.

Today, Yellowstone has mountains, meadows, bears and elk, waterfalls and geysers, and so much more!

What are some things that you hope to see while you are here?

1. _____

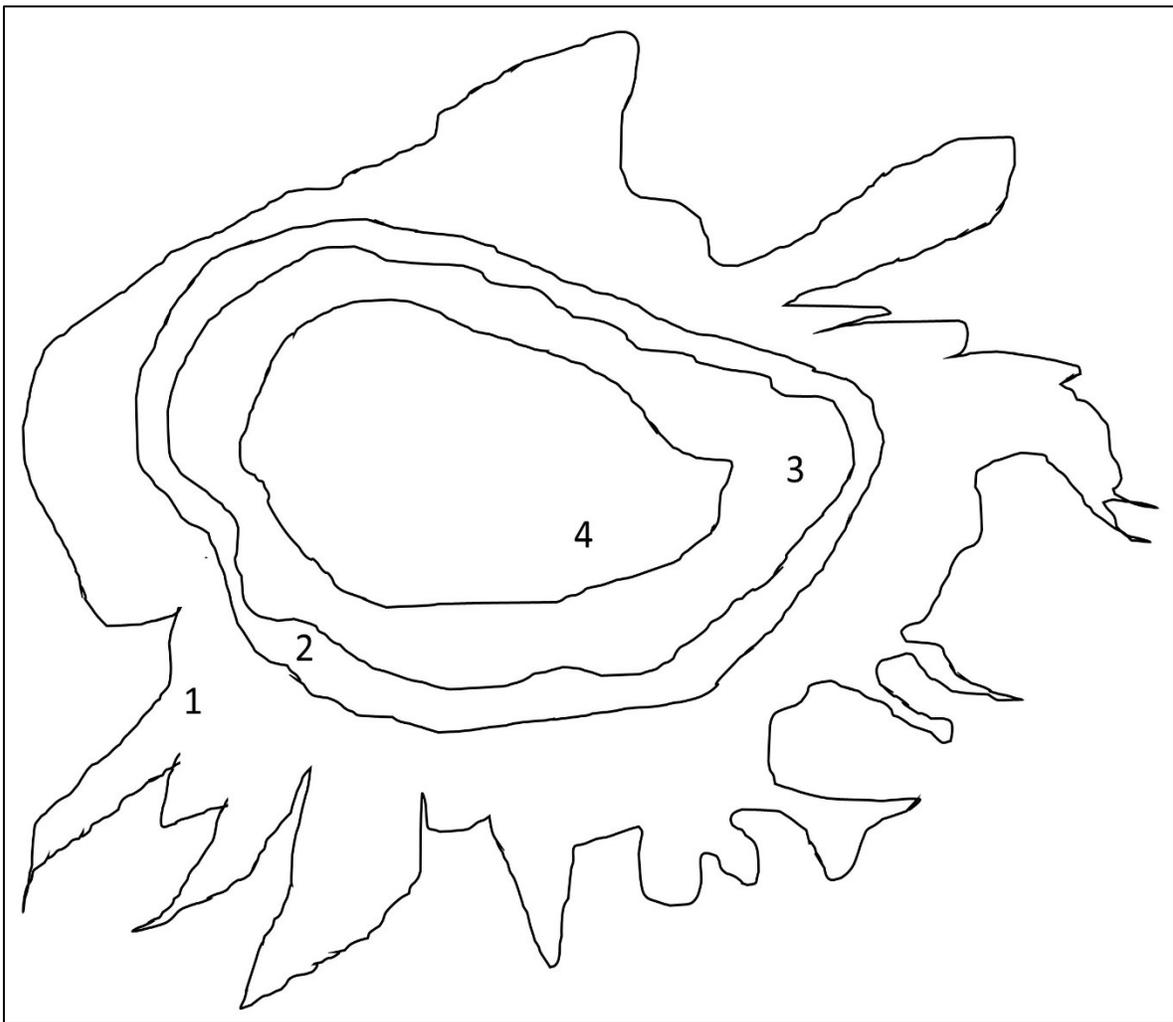
2. _____

3. _____

4. _____

Grand Prismatic Spring is in the Midway Geyser Basin. It is the largest hot spring in the US, and is home to a vast array of thermophiles. 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. But before we do that, it is important to know this:

Rocks are made up of minerals. And minerals have different colors. These colors are what give the rocks their colors.

Color the boxes below with the colors of the basic light-colored, rock-forming minerals.

Quartz	Muscovite mica	Potassium feldspar	Sodium feldspar	jasper	calcite
White or clear	Silver-gray	Pink	White	Reddish-orange	White or clear

And there are six basic dark-colored, rock-forming minerals. Color these.

Amphibole or Hornblende	Pyroxene	Calcium feldspar	Biotite mica	Iron	Olivine
Black or dark greenish	Black or dark greenish	gray	black	black	Light to dark green

Types of Rocks

Volcanic

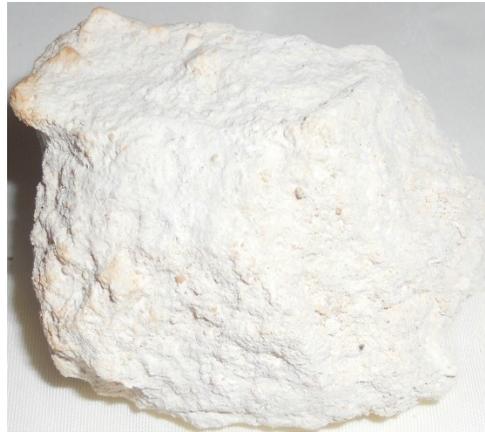
Lava is a type of volcanic or igneous rock. It was formed by fire.



Basalt lava



Rhyolite lava



Rhyolite lava

Lava is the most abundant rock of Yellowstone. Why would that be?*

*Yellowstone is a giant volcano.

There is a whole mountain made of obsidian near Mammoth Hot Springs.

Your assignment: Find samples of the following rocks. After you have found them, confirm your find with your guide.

- Basalt lava
- Rhyolite lava
- Obsidian

*Remember that you must not keep what you collect. This is the law in the National Parks.

The reintroduction of the gray wolf to the park has been a controversial decision.

Thought questions:

Why do you think that some people saw the introduction of the wolf to the park as a good decision?

One of the main groups that disagreed with this decision were the ranchers who live outside of the park. Why do you think that the ranchers did not agree with this decision?

Elk can be seen throughout the park, especially in the Mammoth Hot Springs area.

Instructions: During your trip in 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	
Mud Pot	
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	
Bacteria	
Lodgepole pine	
Tuff	