

Yellowstone National Park Geysers

Name:	Date:
Hydro means	
Thermal means	
Write a definition of hydrothermal feature	::
In your own words, describe how a geyser	works.
What does a geyser need in order to erupt	7 Chock all that apply
 □ Heat source □ Lungs □ Strong rock □ Reliable water source 	☐ Sunlight ☐ Pressure ☐ Salt

	What do you think of when you hear the word geyser?
	Draw your own geyser above. Include details showing:
	whether it is a cone or fountain geyserhow high it erupts
	how long its eruptions last
	 what the plumbing system underground may look like
How (does water affect your hometown?
If wat	er is everywhere, why don't all places have hydrothermal features?

What are three (3) ways people can help preserve geysers? 1
2
3
Why are geysers so important to Yellowstone National Park?
Using the math described in the video, predict the next eruption of Old Faithful in the following situation: • Start time: Old Faithful started erupting (not including pre-play) at 9:50 am • Duration: It lasted for 4 minutes and 17 seconds (a long eruption) • Interval: • Use the space below show the math you'd use to determine when the next eruption is predicted to occur. Include how many minutes it will take for Ol Faithful's plumbing system to recharge with hot water and pressure so that it can erupt again (the interval).
When do you predict the next eruption of Old Faithful will be?(+/- 10 minutes)

Imagine you are an early explorer who has never heard of a geyser and has no prior knowledge about the science of Yellowstone as well as no access to cameras or phones. Write a short letter to your friends and family back home describing your experience, what you see in the hydro-thermal areas, and how you feel about the observations:
What did you learn that surprised you and why?
What are two (2) questions you still have about hydrothermal features in Yellowstone? 1
2
Where could you find the answers to your questions?

Thermal Feature Word Search

D	Т	Α	Е	Н	О	S	Α	Z	X	Z	Е	Α	L	F	Υ	Υ	U	Т	Α
M	Н	J	S	Z	U	Н	Α	Z	О	Е	W	Н	U	F	J	S	0	Е	Z
N	J	M	O	Н	K	T	K	Н	G	Α	Р	М	Z	О	٧	Р	R	1	0
G	Н	K	Т	R	В	U	Χ	S	S	Χ	Α	Χ	D	Ν	D	U	T	U	L
Z	F	Z	U	С	Q	U	Н	K	Н	R	Н	D	0	U	S	0	R	F	F
С	Ε	D	F	N	W	Q	J	Н	О	K	1	1	M	S	٧	Н	0	Т	W
1	Α	Н	W	M	С	Υ	Z	L	Z	N	Т	1	Е	Υ	S	J	L	W	T
Q	R	Υ	Ν	K	М	Υ	Е	В	Α	Α	R	R	Р	Α	R	K	D	X	Α
٧	Т	0	S	Н	X	Α	U	Ε	٧	J	Р	Α	0	J	С	G	L	М	W
Z	Н	В	R	٧	F	F	O	R	Υ	L	Р	W	Q	٧	U	0	Α	Р	F
0	Q	٧	X	Ε	Е	Υ	Е	L	L	0	W	S	Т	0	Ν	Ε	K	D	Υ
Р	U	S	М	G	S	S	Ν	Т	K	Q	С	D	Т	L	Υ	Χ	R	U	G
W	Α	Т	Е	R	Е	Υ	O	Р	Υ	В	С	N	J	С	٧	С	N	٧	0
٧	K	N	Н	R	Р	Z	Е	R	L	В	Q	Υ	M	Α	М	Z	Α	Υ	L
В	Е	D	Р	T	Р	L	D	G	Z	U	1	Z	Н	N	K	В	T	Ν	0
Υ	S	W	S	N	F	Α	S	Ν	F	٧	М	K	Ν	О	G	Р	1	Α	Е
G	W	R	Р	G	L	J	S	1	J	J	Е	В	1	M	٧	Р	0	Н	G
В	Q	Υ	٧	K	W	Χ	W	R	1	L	G	L	1	٧	R	F	N	R	Q
U	J	1	R	Α	D	R	S	Р	Α	F	L	Q	Ν	Ν	1	Α	Α	Е	Χ
J	С	Р	J	Z	В	1	В	S	М	В	0	Н	Υ	Α	G	С	L	O	С
	RTH(YSE		KES		FUMAROLE HEAT						GEOLOGY HOT								

EARTHQUAKES GEYSER MUDPOT PLUMBING

SPRING YELLOWSTONE FUMAROLE HEAT NATIONAL PRESERVATION VOLCANO

GEOLOGY HOT PARK PRESSURE WATER

For further exploring: watch Yellowstone webcams (such as one on Old Faithful Geyser) https://www.nps.gov/yell/learn/photosmultimedia/webcams.htm

For more information about Yellowstone's geysers and other hydrothermal features, visit: www.nps.gov/yell www.nps.gov/yell/learn/kidsyouth/index.htm