

Teacher Guide

Education Ranger: Yellowstone National Park

Covered Concepts:

Reading Comprehension: Sections 1, 2, & 4

Adding Time and Using a Formula: Section 3

Nonfiction Text Features: Section 4

Section 1: Education Ranger

- **Vocabulary:**
 - National Parks, Education Ranger, National Parks Service
- **Career Highlight:**
 - Students read about the role of an education ranger.
- **Content Check:**
 - Students answer questions about education rangers.

Section 2: Yellowstone

- **Learn:**
 - Students will read about Yellowstone, a national park located in Wyoming.
- **Content Check:**
 - Students read and answer questions about: Yellowstone

Section 3: Math Practice

- Students will add time together and use a formula to determine the next time Old Faithful will erupt.

Section 4: ELA Practice

- Students will learn about nonfiction text features and then answer questions about nonfiction text features and hydrothermal features present in Yellowstone.

Teacher Guide: Answer Keys

Content Check: Education Ranger

1. Education rangers will not be able to answer any of your questions about the park. F
2. Sometimes education rangers take visitors on a walk or hike through the park to teach them more about it. T
3. Education rangers may visit local communities and events to share the importance of national parks with others. T

Content Check: Yellowstone

1. The majority of Yellowstone is located in what state?
Wyoming.
2. Name at least two trees and two animals that can be found in Yellowstone.
Answers will vary.
3. In what year did Yellowstone become a National Park?
1872

Math Practice

#1

Length of Eruption: *4 minutes*
Minutes until next eruption: *68 minutes*
Next eruption will be at: *6:53 PM*

#3

Length of Eruption: *4 minutes*
Minutes until next eruption: *68 minutes*
Next eruption will be at: *12:34 AM*

#2

Length of Eruption: *2 minutes*
Minutes until next eruption: *94 minutes*
Next eruption will be at: *9:22 AM*

#4

Length of Eruption: *5 minutes*
Minutes until next eruption: *68 minutes*
Next eruption will be at: *3:15 PM*

Teacher Guide: Answer Keys

ELA Practice

What two text features are shown on this page? **Headings and a sidebar.**

What kind of text feature are the words under each picture? **Captions.**

What text feature is shown on this page? **A diagram.**

Look at the three text features labeled A, B, and C. Next to the correct letter, write the name of the text feature and why writers may use it when writing non-fiction text.

A: **Glossary: Writers use it to tell readers the definitions of important words all in one place.**

B: **A graph. Writers may use it to show readers information in a visual way so it is easier to understand.**

C: **A map. Writers may use it to show readers about a place they are writing about.**

1. In your own words describe what causes hydrothermal features.

Water is heated up below earth's surface by magma until it reaches extremely high temperatures. Heat and pressure then push that water back up to earth's surface as hydrothermal features.

2. List the five types of hydrothermal features that can be found in Yellowstone.

Hot Springs, Geysers, Mudpots, Travertine terraces, and Fumaroles.

3. How many hydrothermal features are present in Yellowstone? How many of those are geysers?

There are 10,000 hydrothermal features are located in Yellowstone. At least 500 of those are geysers.

4. What are the three things needed in order for hydrothermal features to form?

Heat, water, and a natural plumbing system.