

Johnstown Flood Junior Ranger Activity Booklet

National Park Service
U.S. Department of the Interior

Johnstown Flood National
Memorial



JOHNSTOWN FLOOD NATIONAL MEMORIAL

This Junior Ranger Handbook Belongs to:



AGES 8-10



EXPLORE, LEARN, PROTECT



THE JUNIOR RANGER WAY!

Welcome to the Johnstown Flood National Memorial!

If you have this booklet, GREAT! You want to become a Junior Ranger! As a Junior Ranger, you help the National Park Service in its mission. You will help to preserve and protect the park and its resources for future generations.

To become a Junior Ranger, just complete the booklet's activities and take it to the Park's information desk in the Visitor Center. The Park Staff will review your completed booklet and swear you in as a Junior Ranger and give you your official Junior Ranger Badge and Certificate.

Have Fun! If you have any questions, don't be afraid to ask any Park Ranger or Park Staff for help! You can also have a parent, grandparent, friend, brother or sister, or another adult you know, help you.

If you can't finish the booklet at the park, or have had a booklet sent to you, just complete the booklet, sign the Junior Ranger Promise, and send everything to:

Johnstown Flood National Memorial
National Park Service
733 Lake Road
South Fork, PA 15956

THE NATIONAL PARK SERVICE



The National Park Service is part of the government of the United States.

The National Park Service was established on August 25, 1916.

The National Park Service preserves and protects about 400 sites.

These include National Parks, National Battlefields, National Highways, National Seashores, National Monuments, and National Memorials, like the Johnstown Flood National Memorial.

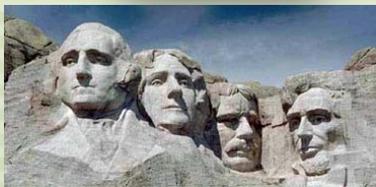
- ❖ *Do you know which National Parks are in the state that you live?*
- ❖ *Have you been to other National Parks in other states?*

“See if you can match the picture to the park!”



Abraham Lincoln Birthplace National Historical Park

Independence National Historical Park



Mount Rushmore National Memorial

Clara Barton National Historic Site

George Washington Birthplace National Monument



Gettysburg National Military Park

Statue of Liberty National Monument

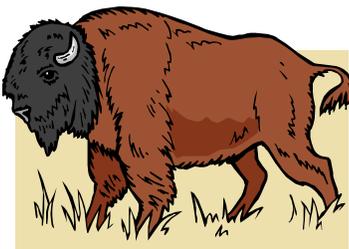


Sequoia and Kings Canyon National Parks

To find out more about other National Parks, go to www.nps.gov

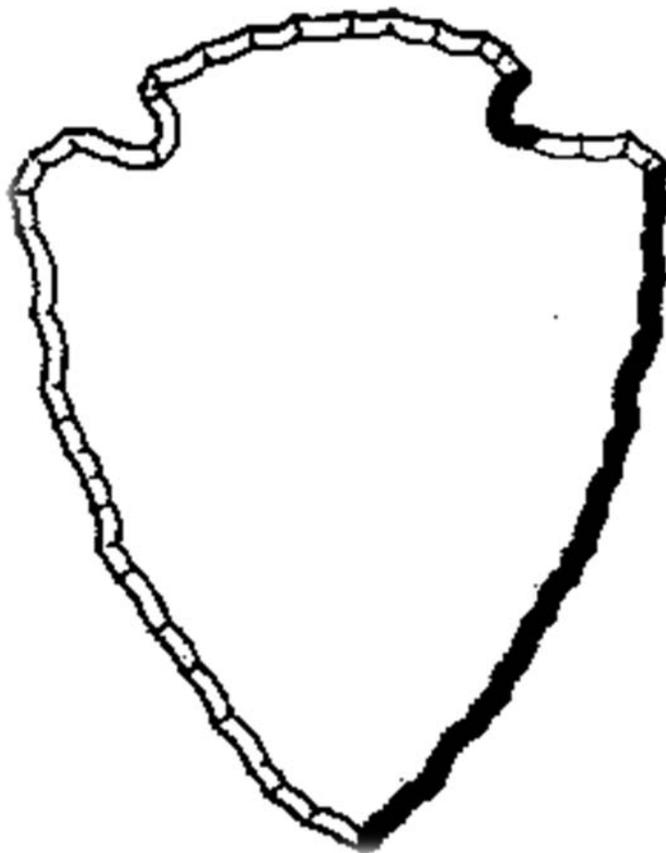
NATIONAL PARK

SERVICE ARROWHEAD



The arrowhead is the emblem or symbol of the National Park Service. When you see anything dealing with the National Park Service you will probably see this.

To get the meaning behind the emblem, fill the arrowhead below with the pictures that make up the National Park Service arrowhead. (Hint: find an arrowhead emblem in the Visitor Center to find out what to draw.)



Trees: *Represent all plants in the National Parks.*

Bison: *Represent all animals in the National Parks.*

Mountains & Lakes: *Represent the scenic beauty and recreation in the National Parks.*

Arrowhead shape: *Represents cultural and historic resources in the National Parks.*

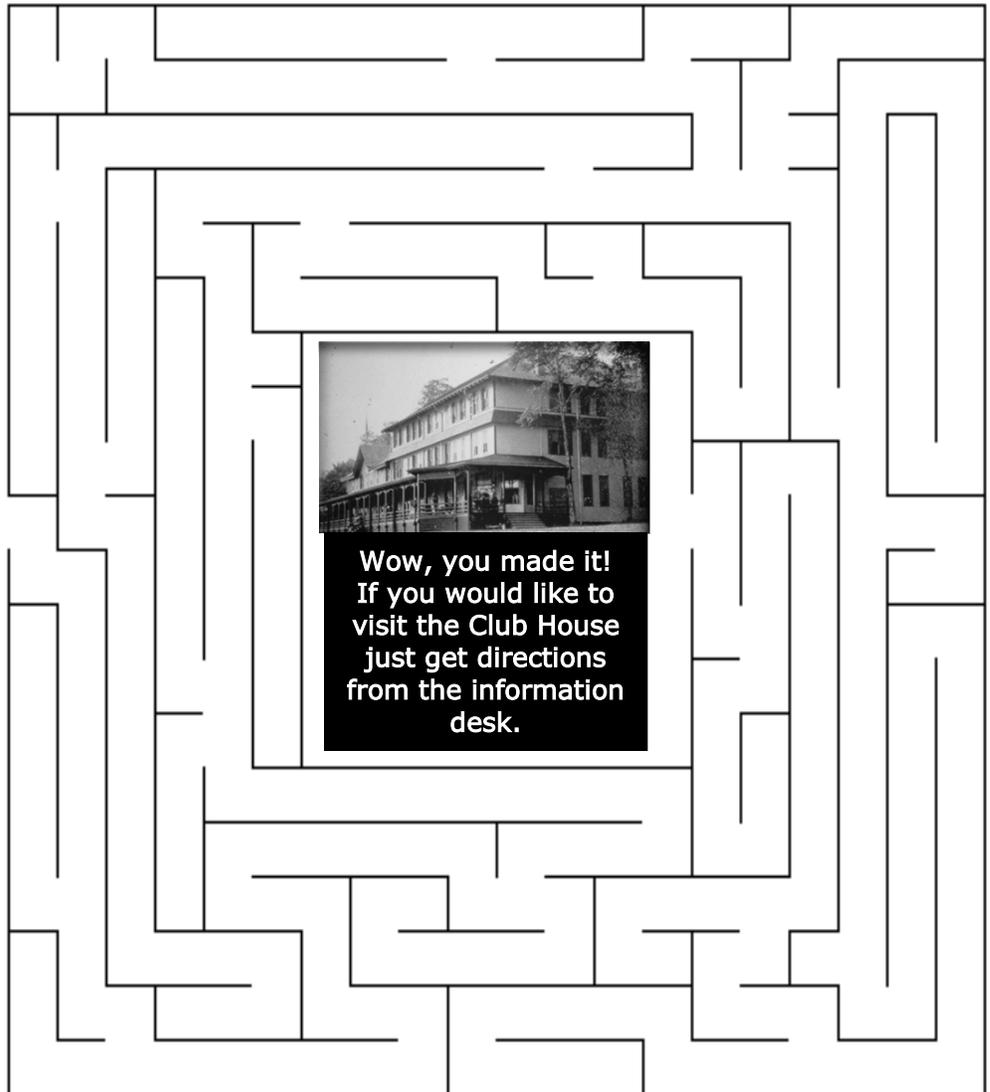
JOURNEY TO THE SOUTH FORK FISHING AND HUNTING CLUB

Elias J. Unger was the last president of the South Fork Fishing and Hunting Club. Unger sometimes lived in the house below the Visitor Center. We call that building the Unger House. Besides being the president of the Club, Unger also took care of the Club House, Club grounds, the Lake, and the Dam.

See if you can find your way from the Unger Farm/Johnstown Flood National Memorial Visitor Center to the Club House and Cottages of the South Fork Fishing and Hunting Club.



Wow, you made it!
If you would like to
visit the Club House
just get directions
from the information
desk.



TEST YOUR KNOWLEDGE!

There is a lot to learn about the Great Johnstown Flood of 1889. To see how much you have learned from visiting our park, try to answer all of the questions below.

The answers can be found in the Visitor Center exhibits and the official map and guide. Just circle which one you think is right.

Who originally built the South Fork Dam?

- (a) The South Fork Fishing and Hunting Club
- (b) The State of Pennsylvania
- (c) The people of Johnstown



What year was the South Fork Dam finished?

- (a) 1955
- (b) 1812
- (c) 1853

What was the South Fork Dam made of?

- (a) Puddled earth
- (b) Concrete
- (c) Timber

Who was the founder and first President of the South Fork Fishing and Hunting Club?

- (a) Andrew Carnegie
- (b) Benjamin Ruff
- (c) Henry Clay Frick

The South Fork Fishing and Hunting Club held "Regattas" or boat races. What is one type of boat that they used on the Lake for these events?

- (a) Canoes
- (b) Jet skis
- (c) Speed boats

What three years did Johnstown have major floods?

- (a) 1881, 1889, 1911
- (b) 1889, 1936, 1977
- (c) 1885, 1963, 1982

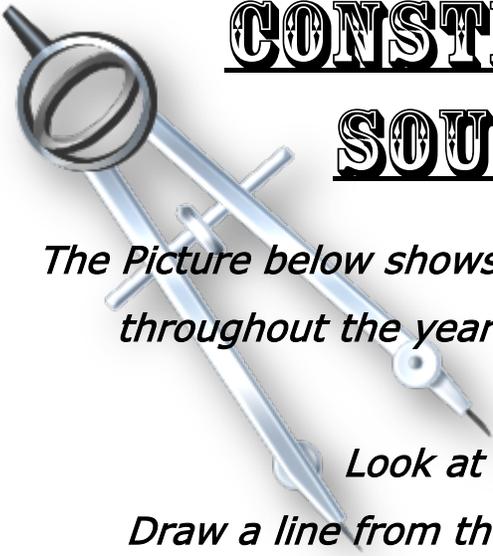
Who was the founder of the American Red Cross?

- (a) Helen Keller
- (b) Susan B. Anthony
- (c) Clara Barton

What was the total amount of money donated from around the world to the Johnstown Flood Relief Effort?

- (a) \$5,845,340.25
- (b) \$789,654,901.41
- (c) \$3,742,818.78

CONSTRUCTION OF THE SOUTH FORK DAM



The Picture below shows how the South Fork Dam had changed throughout the years that led to the failure of the dam.

Look at the picture of the dam.

Draw a line from the word to the object in the picture.

Missing control tower

Spillway

Bridge over the spillway

Missing discharge pipes

Fish Screens

Sag in dam



DECODE THE MESSAGE!



A telegraph key is a device for sending and receiving messages. A telegraph message is sent by a telegraph operator. The "Morse" or electrical telegraph was created by Samuel Morse in 1837. He also invented Morse code, which is a type of message sent by using sound patterns matching dots and dashes to letters of the alphabet. The very first telegram was sent by Samuel Morse on January 6, 1838, across two miles.

There were three messages sent to Johnstown by telegraph operators warning Johnstown of the impending danger. One telegraph was sent by Emma Ehrenfeld who was a telegraph operator for the Pennsylvania Railroad at the South Fork tower, 14 miles from Johnstown.

Figure out what message Emma Ehrenfeld sent to Johnstown at 2:30 p.m.

(See next page for Code)

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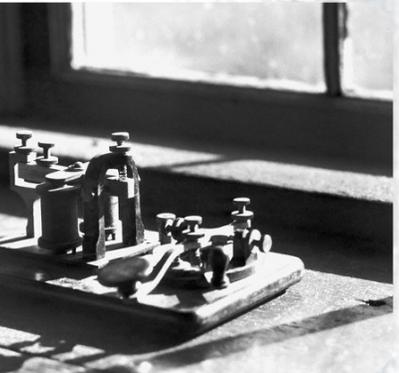
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- . . . - - . - . - - . . - . - - -

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International Morse Code

1. A dash is equal to three dots.
2. The space between parts of the same letter is equal to one dot.
3. The space between two letters is equal to three dots.
4. The space between two words is equal to seven dots.

A ● ■
B ■ ● ● ●
C ■ ● ■ ●
D ■ ● ●
E ●
F ● ● ■ ●
G ■ ■ ●
H ● ● ● ●
I ● ●
J ● ■ ■ ■
K ■ ● ■
L ● ■ ● ●
M ■ ■
N ■ ●
O ■ ■ ■
P ● ■ ■ ●
Q ■ ■ ● ■
R ● ■ ●
S ● ● ●
T ■

U ● ● ■
V ● ● ● ■
W ● ■ ■
X ■ ● ● ■
Y ■ ● ■ ■
Z ■ ■ ● ●

1 ● ■ ■ ■ ■
2 ● ● ■ ■ ■
3 ● ● ● ■ ■
4 ● ● ● ● ■
5 ● ● ● ● ●
6 ■ ● ● ● ●
7 ■ ■ ● ● ●
8 ■ ■ ■ ● ●
9 ■ ■ ■ ■ ●
0 ■ ■ ■ ■ ■

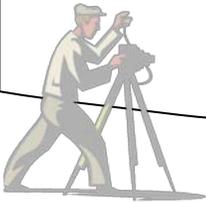


BE A REPORTER!



The Johnstown Flood of 1889 was the biggest news story at time. Reporters and photographers swarmed the Johnstown area. For months after the flood, newspapers, magazines, and books were printed and sold telling the world what happened, whether what they wrote was fact or fiction. These reports brought readers around the world to contribute money, supplies, and relief to Johnstown and the surrounding areas that were devastated by the flood waters.

Imagine you are a reporter for the New York Times, in 1889. You came to Johnstown to cover the story of the Great Johnstown Flood of 1889. Remember what you learned about the flood. Remember the people who survived the flood and those who died in the flood. Remember the South Fork Fishing and Hunting Club and its Club members. Also remember the dam and its various owners, its faults, and the events that took place after the dam failed. Don't forget about Clara Barton and others coming to town after the flood and all the contributions made for the relief and recovery effort. Write down what you would put in your article for the newspaper.



TAKE HOME ACTIVITY

JOHNSTOWN FLOOD WORD SEARCH

See how many words you can find in this word search puzzle. Look across, down, up, backwards, and diagonally. Have Fun!

Clubhouse
Hunt
Fish
Sailboat

Unger
Carnegie
Dam
Johnstown

Disaster
Water
Flood
Railroad

Telegraph
Help
Charity
Memorial

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



BE AN EXPLORER!

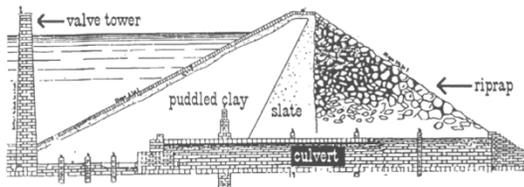


WAIT DON'T GO! DON'T YOU WANT TO VISIT THE SOUTH FORK DAM?

Now that you have visited the Johnstown Flood National Memorial Visitor Center and learned all about the South Fork Fishing and Hunting Club, the South Fork Dam and the Johnstown Flood of 1889; take a walk to the remains of the South Fork Dam. A National Park is more than a Visitor Center; we also preserve and protect the resources, which means that we try to preserve and protect the remains of the dam. *(It is not necessary to go to the dam/trail to complete the Jr. Ranger Program! This is an extra activity.)*

While hiking to the dam remember the following:

1. The original dam that was built was 72 feet high, 931 feet long, 270 wide (at its base), and 10 feet wide at the top of the dam.



2. A valve control tower was out in the lake that regulated the flow of water out through 5 iron pipes that went through a stone culvert.
3. After a break in the dam in the year 1862 the lake was completely drained, the valve control tower burned down, and the cast iron pipes were taken out and sold.
4. The dam was made of 2ft. layers of clay and earth. These layers were packed and rammed or pounded into place, then skimmed with water before the next layer. This made it watertight.
5. When looking out where the lake once was, use your imagination and try to envision a body of water in front of you. At full capacity the lake was almost 450 acres of water, 50-60 feet



You need a parent or guardian to drive you to the trailheads. (Get the directions at the Visitor Center information desk)

6. There was a spillway that looked like a waterfall on the eastern-side of the dam. It was 72 feet wide and 10 feet deep. Later a bridge was built over it so that horses and carriages could cross over.
7. In the picture on the right, you can see the fish screens that were built across the spillway to prevent the Club's fish from escaping Lake Conemaugh and heading downstream.
8. From where you are standing look onto the hillside that has the Johnstown Flood Memorial Visitor Center and the historic Unger House. This was the farm of Colonel Elias J. Unger, the last president of the South Fork Fishing & Hunting Club.





TRAIL ACTIVITY

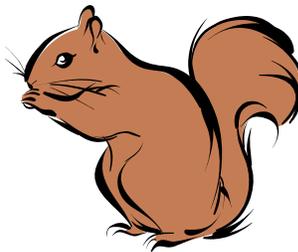


See if you can find these items while walking the trails in the park.

A Groundhog or Woodchuck



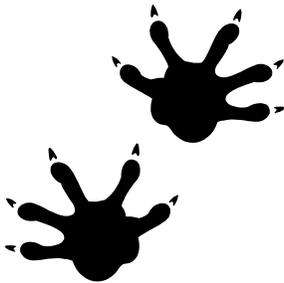
A Squirrel
(A Red or Grey Squirrel)



A Sugar Maple
(Leaf or Tree)



Animal Tracks
(Any animal)



A May-apple plant



A Caterpillar or Insect



A Crown Vetch plant



A Duck or Goose
(Canadian goose or Mallard Duck)



Walking or Biking
People at the park



JUNIOR RANGER PROMISE

"I, _____, am proud to be a National Park Service Junior Ranger. I promise to appreciate, respect, and protect all national parks. I also promise to continue learning about the landscape, plants, animals and history of these special places. I will share what I learn with my friends and family."



Signed, _____



To help you remember when you came to the park, use the official Johnstown Flood National Memorial passport stamp!



FOR MORE INFORMATION

National Park Service
www.NPS.gov



The National Park Service preserves unimpaired the natural and cultural resources and values of the national park system for the enjoyment, education, and inspiration of this and future generations.

Johnstown Area Heritage Association
www.jaha.org



The Johnstown Area Heritage Association is a non-profit, membership-based organization that exists to preserve and showcase Johnstown's nationally significant stories to the nation. To do that, we provide high-quality educational, cultural and recreational experiences in the area's unique historic settings.

National Park Service Web Rangers
www.NPS.gov/WebRangers



If you enjoyed the Junior Ranger program at Johnstown Flood National Memorial, you can go online and complete the webranger program. Once you've finished all the activities online, you get a patch and certificate!



JOHNSTOWN FLOOD
NATIONAL MEMORIAL

JUNIOR RANGER AWARD

This Certificate of Merit is awarded to

For completing requirements of the
Junior Ranger Program



_____ Date

_____ Park Ranger

