

Experience Your America!

Springfield Armory National Historic Site
One Armory Square, Suite 2
Springfield, MA 01105
(413) 734-8551
www.nps.gov/spar



Junior Ranger Activity Book

National Park Service
U.S. Department of the Interior
Springfield Armory National Historic Site



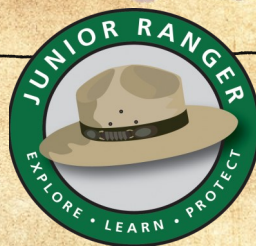
ACKNOWLEDGEMENTS:

Activities and content by Park Rangers Susan Ashman, Melanie Hankins, and Jennifer Zazo-Brown and Park Volunteer Matt Villamaino.

Layout and design by Matt Villamaino.
Soldier illustrations by John Kwaitkowski
All other images and illustrations, Springfield Armory NHS archives



Instructions & Activity Checklist



Instructions:

- 1) To receive your Jr. Ranger badge and certificate, you must complete at least five activities in this book.
- 2) Once you have completed your activities, find a park ranger and ask them to review your book.
- 3) Take the Jr. Ranger pledge and receive your badge and certificate.

Activity Checklist

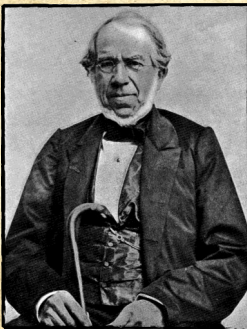
- ☐ The Eagle and the Armory
- ☐ Weapon Word Search
- ☐ Notes to Soldiers
- ☐ Worker Scramble
- ☐ Museum Scavenger Hunt
- ☐ Firearms Matching
- ☐ Inventors of the Armory

Inventors of the Armory

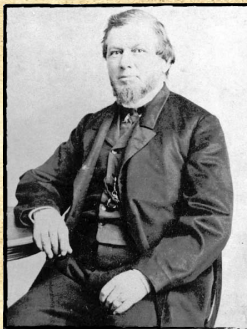
Locate the four inventors throughout the museum. After reading about these men and their inventions, match the pictures with the descriptions below.



David Lyle
(Industrial Side)



Thomas Blanchard
(Industrial Side)



Erskine Allin
(Weapons Side)



John Garand
(Weapons Side)

I worked at the Springfield Armory for five years and invented thirteen machines to speed up production. One of these is the large wooden machine on the museum floor. It cuts the wood into gunstocks.

Who am I? _____ What machine did I invent? _____

Before I was 18 years old, I created two inventions. As an adult, I created one of the most praised weapons of the armory. It was used in two wars and was the first semi-automatic rifle issued to the US Army.

Who am I? _____ What weapon did I develop? _____

My dad and I both worked at the armory. I started when I was 20 years old and eventually become the armory's Master Armorer. My invention turned muzzle loaders into breech loaders.

Who am I? _____ What weapon did I develop? _____

I graduated from West Point Military Academy. For two years I worked at Springfield Armory making devices to save lives. It fired a rope from the shore to ships that had crashed on the rocks.

Who am I? _____ What weapon did I develop? _____

Firearms Matching

Find these guns and use the information in the cases to connect the facts to the weapons. Write the letter of the fact underneath the weapon it matches.

A. Last muzzle loading weapon produced at Springfield Armory Case #31

B. Over 6 million of this rifle produced, with about 4.5 million made at Springfield Armory Case #60

C. Initially made by converting leftover muzzle loading rifles from the Civil War Case #43

D. Last rifle mass produced at Springfield Armory

E. First weapon produced by both National Armories using interchangeable parts Case #32

F. Used in the Spanish-American War Case #50

G. Design copied from the French Charleville musket Case #32

H. Based on the German Mauser bolt action design Case #50



M1795 Flintlock Musket



M1842 Percussion Musket



M1863 Rifle Musket



M1873 "Trapdoor" Rifle



Krag-Jorgensen Rifle



M1903 Springfield Rifle



M-1 Rifle



M-14 Rifle

Welcome!



Welcome to Springfield Armory National Historic Site!

You are in a special place. Springfield Armory is one of the over 400 sites of the National Park Service that helps protect some of our most historic and natural treasures in the United States.

President George Washington founded Springfield Armory in 1794 to ensure soldiers were equipped with effective weapons to protect the young nation. Thousands of men and women worked at the Springfield Armory between 1794 and 1968 providing firearms for American soldiers from the War of 1812 through the Vietnam War.

The need for new and improved machines and production sparked a wave of innovation in Springfield and throughout the Connecticut River Valley. New ways of shaping wood and metal developed at Springfield Armory revolutionized manufacturing and spread worldwide to many other products such as sewing machines, bicycles, and cars.

As you explore Springfield Armory National Historic Site, imagine yourself in this place at some point over the last 225 years. What role would you play: Commanding Officer, Inventor, Factory Worker, Soldier, Park Ranger?

Thank you for becoming a Junior Ranger!

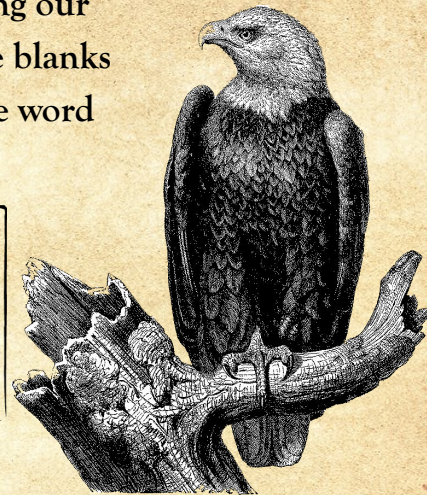


Kelly Fellner
Kelly Fellner
Superintendent

The Eagle and the Armory

The bald eagle image is stamped on firearms manufactured by the military representing our nations' freedom and strength. Fill in the blanks in the paragraph with the words from the word bank on top and learn about eagles.

TALONS	SPECIES	MILES
EAGLES	FEATHERS	FREEDOM
BALD	EYESIGHT	DIVE



Throughout the world, _____ are considered living symbols of power and _____. There are more than 60 different _____ of eagles. They have powerful _____ similar to a claw to help them catch their prey. Eagles have great _____ that enables them to see up to one and a half _____ away. They can _____ at 100 miles per hour. There are approximately 7000 _____ on an eagle. _____ eagles are the national symbol of the United States.



Ask a park ranger for the lockplate stamp.

What European firearm design was used by the Armory in 1892? (Case #47)

The M1903 rifle was developed after which war? (Case #50)

What weapon was it based on?

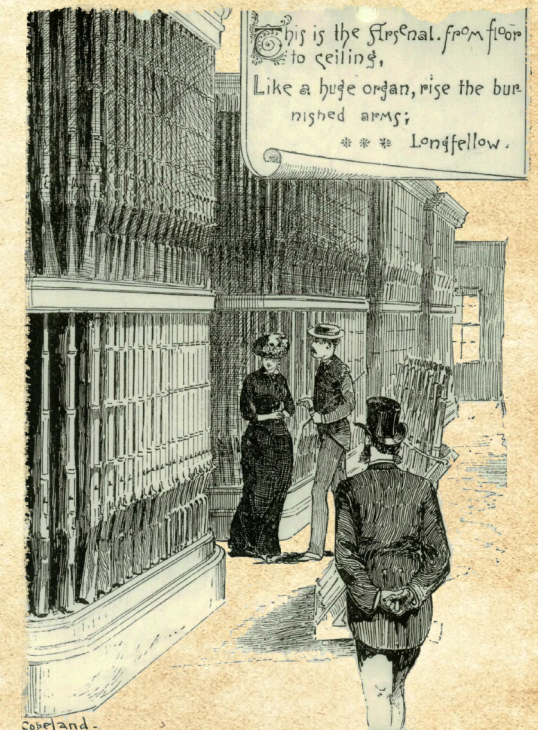
Look at the large structure in the middle of the floor. This has been used to store weapons since the 1830s. What is it called?

How many muskets do you think are in the structure today?

Which famous poet wrote a poem about this structure?

What firearms were damaged by nature? (Case #24)

What were the causes of this damage?

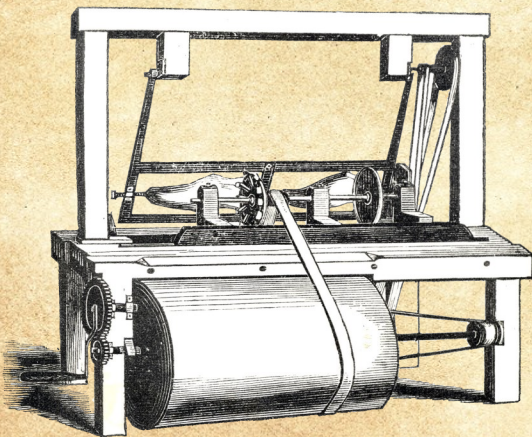


Museum Scavenger Hunt

Try to find the answers to these questions while looking around the museum. Start on the INDUSTRY side of the museum, then go to the WEAPONS side of the museum.

What gun in the museum was made to save lives? Who invented it?

Look at the big machines in the middle of the floor. Which machine revolutionized the way that gunstocks were produced? Who invented it?



Locate the carpenter's tool chest. (Near Case #3) In what century were these tools used? Name at least one tool.

Now find the signal bell among the machines. What was the bell used for?

What was a great danger to the armory buildings? What equipment was used to protect the armory from it?

Weapon Word Search

This word search contains important vocabulary of the Springfield Armory. The words are the firearms produced here and the parts of the weapons. There are 15 words, how many can you find?

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

AMMUNITION
BARREL
BAYONET
CARBINE
FLINTLOCK

GARAND
KRAG-JORGENSEN
LOCK
MAGAZINE
MUSKET

PERCUSSION
RIFLE
SMOOTHBORE
STOCK
TRAPDOOR

Notes to the Soldiers

During World War Two, many of the men who worked at the armory joined the Army and were replaced by women workers called Women Ordnance Workers or WOWS.

Sometimes they wrote notes of encouragement to soldiers and put them in the end of the gun (stock).



Take a minute to write a message to a soldier. Some examples are - "Come back soon" and "Thank you for fighting for us."

Worker Scramble

Armory workers came from many different countries. Using the word bank as a guide, unscramble the letters underneath the pictures to find out some of the countries these workers came from.

China	Cuba	Ireland	Philippines	West Indies	Norway
Latvia	Greece	France	Syria	Poland	Czechoslovakia

Cheecheu Yip



NAHIC

Mrs. Mae Llewellyn



DARELIN

Mrs. Clarice Rush



STEW NISDIE

Reymundo Cayode



SPILPHINIEP

Fred Ziter



YISAR

Andrew Fedora



AAKOLIVSZCHECO

Mrs. Sonya Eventov



IVALTA

Antonio Dominguez



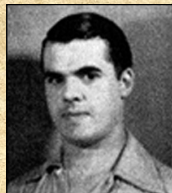
ACBU

Mrs. Mary Roukas



EGCERE

Ernest Ruyffelaert



NECAFR

Hans Christiansen



RYANWO

Peter Golaszewski



ALNOPD