

Second Grade

DISCOVER AMERICA

Course 18 - Teacher Guide



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Second Grade

Teacher Guide



Key Themes

- Creative Liberty
- Community
- Risk-taking and Experimentation

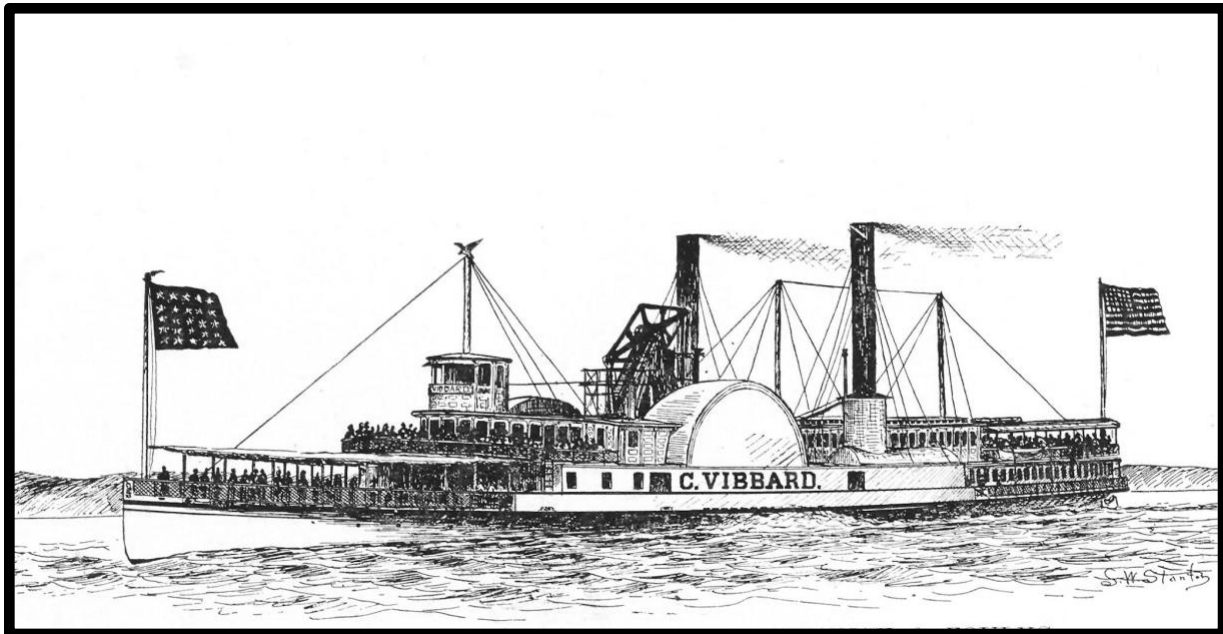
Core Values

- Community
- Life
- Liberty

Learning Objectives

Students will be able to:

- Define creative liberty.
- Identify the value of a community that supports creativity.
- Experiment with ideas to make improvements.
- Explain how and why the steamboat was created.



Fulton's Steamboat - Second Grade

Key Terms

- 01 **inventor:(maker):** a person who creates a process or device that can improve circumstances.
- 02 **engineer:(construction)** designing products that will solve problems and make products more accessible.
- 03 **visionary:(dreamer):** a person who creatively thinks about the future.
- 04 **river transportation:(boat)** a boat or ship that moves up and down rivers.
- 05 **steam engine:** an engine that uses steam to generate power.
- 06 **innovation:(develop)** a new method, idea, or product that helps the community.
- 07 **community:** a group living in an area with similar interests, ideas, attitudes, and goals.

Fulton's Steamboat - Second Grade

Introduction

ASK Students

- Have you ever had a dream or a goal that you really wanted to make happen?
- What was it and what did you do to try and achieve your goal?
- Have you ever not met a goal or achieved something you worked hard for? What did you do after that?

TELL Students

It's important to keep your determination even when you're discouraged. Let's look back at history. Inventor, Robert Fulton, had a goal of becoming an artist. He traveled all the way across the Atlantic Ocean to go to study art in France, a country in Europe. But he was not having success in the arts. He did not let this discourage him and started studying to become an engineer. Engineers are people who design and build things using machines and structures. As an engineer, Robert Fulton was able to use his love of drawing to help create canals, ships, and even new inventions— like a submarine the Nautilus and later the first commercially successful steamboat. Robert Fulton took the failed steamboat designs that others created and was determined to create a cheaper steamboat that would successfully change transportation— and he was successful!

WATCH

[Star Spangled Adventures Cartoon Ep. 18: America Moves](#)

<please insert QR code to the video>

Fulton's Steamboat - Second Grade

Creating Fulton's Steamboat

TELL Students

In 1803, Robert Fulton was part of a team that successfully tested a 74-foot side-wheeler steamboat on the Seine River in Paris, France. France is a country across the Atlantic Ocean in Europe. He was determined he could make the steamboat a success in America. Robert Fulton and teamed up with his friend Robert Livingston to work on improving the other steamboat designs. The earlier steamboats that did not work out were too expensive, so they needed to make a cheaper one.

WATCH

Learn More with Liberty Course Video: Costs of Creating A Steamboat

<https://vimeo.com/897306239?share=copy>

TELL Students

With Robert Livingston's help, Robert Fulton made a steamboat called, "The North River Steamboat of Clermont." On August 17, 1807, the steamboat had its first trip along the Hudson River from New York to Albany. It was a bit scary because the engine could explode! Some of Robert's friends thought it was a bad idea, but he didn't give up. The steamboat made the trip in 32 hours, and on the way back, it took only 30 hours! That was very fast back then.

The steamboat, named the Clermont, could carry up to 100 passengers, and they paid \$7 to ride one way. The steamboat helped America grow because the people could move things up and down the river easily. Thanks to Robert Fulton and Robert Livingston, America entered a new era of steamboats, making life better for everyone.

Fulton's Steamboat – Second Grade

Timeline Activity

TELL Students

In 1798, the Mississippi Territory was created. In 1803, the United States purchased the Louisiana Territory from France. These two new territories added land and riverways to the United States. Two of these rivers are the Chattahoochee and the Mississippi rivers, and they were used to transport people and goods from place to place.

In 1803, Robert Fulton was part of a team that successfully tested a 74-foot side-wheeler steamboat on the Seine River in Paris, France, a country across the Atlantic Ocean in Europe. In 1806, Robert Fulton returned to America and began building his steamboat, "The North River Steamboat of Clermont," in the East River of New York.

On August 17, 1807, Robert Fulton's steamboat, Clermont, made its maiden voyage along the Hudson River from New York to Albany, New York. Less than one month later, on September 4, 1807, the Clermont went into commercial service, carrying as many as 100 passengers, along the same route on the Hudson River at a cost of \$7 for a one-way trip.

On a long sheet of paper, create a timeline. Put dates from the paragraph above in order to create the timeline.

Hint: There should be six points on the timeline.

Fulton's Steamboat - Second Grade

Assessment

The following statements are True or False. Circle true if they think the statement is true, and circle false if they think the statement is false.

1. Robert Fulton's first goal in life was to become an artist. (True, False)
2. Before the steamboat, it was difficult to travel along rivers. (True, False)
3. Robert Livingston did not support Robert Fulton. (True, False)
4. Robert Fulton began his engineering career designing canals, ships, and a submarine named the Nautilus. (True, False)
5. Robert Fulton's first successful steamboat in America was called the Clermont. (True, False)

Fulton's Steamboat - Second Grade

Assessment - Answer Key

1. Robert Fulton's first goal in life was to become an artist. (True, False)
2. Before the steamboat, it was difficult to travel along rivers. (True, False)
3. Robert Livingston did not support Robert Fulton. (True, False)
4. Robert Fulton began his engineering career designing canals, ships, and a submarine named the Nautilus. (True, False)
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Fulton's Steamboat - Second Grade

Resource List

"Studying the past makes it possible for us to understand the human story across time." (NCSS, 1921)

"Knowledge and understanding of the past enable us to analyze the causes and consequences of events and developments and to place these in the context of the institutions, values, and beliefs of the periods in which they took place." (NCSS, 1921)

"The study of people, places, and environments enables us to understand the relationship between human populations and the physical world." (NCSS, 1921)

"Questions related to identity and development, which are important in psychology, sociology, and anthropology, are central to understanding who we are." (NCSS, 1921)

"The study of individual development and identity will help students to describe factors important to the development of personal identity." (NCSS, 1921)

1 <https://www.sam.usace.army.mil/Portals/46/docs/recreation/OP-CO/montgomery/pdfs/10thand11th/ahistoryofsteamboats.pdf>

2 <https://education.nationalgeographic.org/resource/steamboat>

3 <http://www.southernlancasterhistory.org/robert-fulton-birthplace>

4 https://www.pbs.org/wgbh/theymadeamerica/whomade/fulton_hi.html

5 <http://www.southernlancasterhistory.org/robert-fulton-birthplace>

6 <https://lemelson.mit.edu/resources/robert-fulton>

7 https://www.pbs.org/wgbh/theymadeamerica/whomade/fulton_hi.html

8 <https://www.sam.usace.army.mil/Portals/46/docs/recreation/OP-CO/montgomery/pdfs/10thand11th/ahistoryofsteamboats.pdf>

9 <https://lemelson.mit.edu/resources/robert-fulton>

- 10 <https://www.nytimes.com/1987/11/17/opinion/l-why-fulton-achieved-steamboat-success-003087.html>
- 11 <http://www.southernlancasterhistory.org/robert-fulton-birthplace>
- 12 <https://lemelson.mit.edu/resources/robert-fulton>
- 13 <https://www.nytimes.com/1987/11/17/opinion/l-why-fulton-achieved-steamboat-success-003087.html>
- 14 <https://www.sam.usace.army.mil/Portals/46/docs/recreation/OP-CO/montgomery/pdfs/10thand11th/ahistoryofsteamboats.pdf>
- 15 <http://www.eyewitnesstohistory.com/fulton.htm>
- 16 <https://education.nationalgeographic.org/resource/steamboat>
- 17 <https://lemelson.mit.edu/resources/robert-fulton>
- 18 <https://www.sam.usace.army.mil/Portals/46/docs/recreation/OP-CO/montgomery/pdfs/10thand11th/ahistoryofsteamboats.pdf>

Notes