<table>
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<tr>
<th>What I LEARNED about the Brooklyn Bridge:</th>
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<th>What I WANT to learn about the Brooklyn Bridge:</th>
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<th>What I already KNOW about the Brooklyn Bridge:</th>
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Compare & Contrast: Before the Bridge

IMAGES A & D

Answer the questions. Write your answers in the Venn diagram below:

- What kinds of vehicles do you see on the water (rowboats, canoes, sailboats, steamboats, ferries)?
- How are they powered (by humans, wind, steam or gasoline)?

- Who and what are the vehicles carrying?
- Are the boats being used for business or pleasure?
- How many people can the different boats carry?
- What else do you notice? Write your observations in the Venn diagram.
Compare & Contrast: Before the Bridge

Ask the questions. Write your answers in the Venn diagram below:

- How are the boats powered by humans, wind, steam, or gasoline?
- How many people can the different boats carry?
- Would people use the boats for business or pleasure?
- What kinds of vehicles do you see on the river (rowboats, canoes, sailboats, steamboats or ferries)?
- How many different types of vehicles do you see?
Putting It Together: Before the Bridge

Put the images in order from oldest to newest. Write the letters in the boxes.

Explain your thinking here:

Image __ goes first because _____________________________

____________________________________________________

Image __ goes second because ___________________________

____________________________________________________

Image __ goes third because _____________________________

____________________________________________________

Image __ goes fourth because ____________________________

____________________________________________________

How has crossing the East River changed over time?

____________________________________________________

____________________________________________________
Compare & Contrast: Building the Bridge

Images A, B, & D

Answer the following questions. Write your answers in the Venn diagram below:

- What work has been completed?
- What parts of the bridge still have to be built?
- Are there people in the images?
- What are they doing?

What part (or parts) of the bridge does the image show?
Compare & Contrast: Building the Bridge

Images C & E

Answer the questions. Write your answers in the Venn diagram below:

- What part of the bridge does the image show?
- Where are the workers located?
- What are the workers doing?
- Is the image labeled? What does it say?
Putting It Together: Building the Bridge

Put the images in order from oldest to newest. Write the letters in the boxes.

Explain your thinking here:

Image ___ goes first because ____________________________

______________________________

Image ___ goes second because ____________________________

______________________________

Image ___ goes third because ____________________________

______________________________

Image ___ goes fourth because ____________________________

______________________________

Image ___ goes fifth because ____________________________

______________________________

In what order was the Brooklyn Bridge constructed?

______________________________

______________________________

______________________________

______________________________
Compare & Contrast: Crossing the Bridge

Images A, C, & E

Answer the questions. Write your answers in the Venn diagram below:

- How many lanes of traffic do you see?
- Has the appearance of the bridge changed? How?
- Is the image labeled? What does the label say?
- What kind of vehicles do you see?
- How are people crossing the bridge?
Compare & Contrast: Crossing the Bridge

Images B & D

Answer the questions. Write your answers in the Venn diagram below:

1. How many lanes of traffic do you see?
2. Has the appearance of the bridge changed? How?
3. Is the image labeled? What does the label say?
4. What kinds of vehicles do you see?
5. How are people crossing the bridge?
Putting It Together: Crossing the Bridge

Put the images in order from oldest to newest. Write the letters in the boxes.

[Blank boxes for images]

Explain your thinking here:

Image ___ goes first because ____________________________

_________________________________________________________________

Image ___ goes second because ____________________________

_________________________________________________________________

Image ___ goes third because ____________________________

_________________________________________________________________

Image ___ goes fourth because ____________________________

_________________________________________________________________

Image ___ goes fifth because ____________________________

_________________________________________________________________

How has crossing the bridge changed over time?

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________
Compare & Contrast: Brooklyn Bridge Art

Images A & D

Answer the questions. Write your answers in the Venn diagram below:

- What does the image show? Is there anything happening in the image? What?
- Why was the artwork created? If so, what does it say?
- Is the image labeled? If so, what does it say?

Date

Names
Compare & Contrast: Brooklyn Bridge Art

Images B & C

Answer the questions. Write your answers in the Venn diagram below:

- What parts of the bridge does the image show?
- What colors were used?
- What shapes catch your eye?
- Who created the image?

Is the image a painting, drawing, photograph or print?
Putting It Together: Brooklyn Bridge Art

Put the images in order from oldest to newest. Write the letters in the boxes.

Explain your thinking here:

Image ___ goes first because ____________________________

_____________________________________________________

Image ___ goes second because __________________________

_____________________________________________________

Image ___ goes third because __________________________

_____________________________________________________

Image ___ goes fourth because __________________________

_____________________________________________________

How have artistic representations of the bridge changed over time?

_____________________________________________________

_____________________________________________________

_____________________________________________________
Compare & Contrast: Other East River Crossings

Images A & B

Answer the questions: Write your answers in the Venn diagram below.

- What does the waterfront look like? Describe the boats and piers.
- What river are you looking at?
- How many bridges do you see?
- What do you see beyond the bridges?
Compare & Contrast: Other East River Crossings

Images C & D

Answer the questions. Write your answers in the Venn diagram below:

- In this image, what are the different ways people can cross the river?
- How do the vehicles here differ from those in the previous images?
- What vehicles can be found on the upper level?
- Who drives the vehicles?
Putting It Together: Other East River Crossings

Put the images in order from oldest to newest. Write the letters in the boxes.

Explain your thinking here:

Image ___ goes first because ____________________________

Image ___ goes second because __________________________

Image ___ goes third because __________________________

Image ___ goes fourth because __________________________

How has crossing the East River changed over time?

______________________________

______________________________

______________________________
More to Think About

Base your answers on your observations of the image below.

1. In this image, people are walking across the East River. What happened that made it possible for people to walk across the river? (Hint: Think about the season depicted in this image.)

2. A few people are not following the crowd. They are crossing the river in a different way. What are they doing? How can you tell?
3. Imagine you are one of the people in this image. Based on your experience, write a letter to the editor of the Brooklyn Daily Eagle newspaper explaining why a real bridge should be built over the East River. (Remember, the Brooklyn Bridge did not open until 1883.) Use details from the image to support your thinking. Use business letter format.
More to Think About

Base your answers on your observations of the image below.

![Image: Brooklyn Bridge with trains, trams, and pedestrians]

THE BRIDGE - SHOWING ROADWAY, WALK AND CABLE CARS FROM GUMPSSES OF BROOKLYN BY THE MERCANTILE ILLUSTRATING COMPANY, CA. 1894

Complete the chart.

<table>
<thead>
<tr>
<th>One way crossing the bridge in 1894 was different than it is today:</th>
<th>One way crossing the bridge today is the same as it was in 1894:</th>
<th>One way crossing the bridge today is different than in 1894:</th>
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This photograph was taken over 100 years ago. Imagine you could travel 100 years into the future and take another photograph standing in this same spot. How will the photograph look different? Draw a picture to show what you would see. Think about who will cross the bridge and how they will cross.
More to Think About

Base your answers on your observations of the image below.

THE GREAT EAST RIVER SUSPENSION BRIDGE.  
THE GREAT EAST RIVER SUSPENSION BRIDGE BY CURRIER & IVES. POSTCARD. DATE SHOW: 1880'S

1. This postcard shows the Brooklyn Bridge. At the time this postcard was made, what was another name for the Brooklyn Bridge?

2. List two different ways to cross the river.
   a. ____________________    b. ____________________

3. How does the bridge look compared to the buildings in this image?

   __________________________________________

   __________________________________________

   __________________________________________

   __________________________________________

   __________________________________________

   __________________________________________
4. Imagine that you work for the ferry company. You are the captain of the ferryboat seen in this postcard. You have lost customers since the bridge opened. To keep your job, you must convince people to use the ferry instead of the bridge.

Use pictures and words to create an advertisement to attract customers to the ferry. Think about:

- What are the advantages of the ferry?
- Why would people want to ride the ferry when they could cross the river faster by traveling on the bridge?
- What does the ferry offer that the bridge does not?
More to Think About

Base your answers on your observations of the image below.

FULTON STREET, BROOKLYN, NY 1746 BY VALENTINE’S MANUAL OF 1858

1. List two types of transportation used by people in early New York.

a. ____________________________  b. ____________________________

2. Based on your observations and prior knowledge, what do you think life was like in Brooklyn and New York in 1746?
Brooklyn Bridge Math
On the Promenade

Visit the bridge. Use tally marks to record the ways in which people use the promenade. Observe for 10 minutes.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Number of People</th>
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<tbody>
<tr>
<td>Walking</td>
<td></td>
</tr>
<tr>
<td>Running</td>
<td></td>
</tr>
<tr>
<td>Bicycling</td>
<td></td>
</tr>
<tr>
<td>Rollerblading</td>
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</table>

1. What activity is the most popular?

2. What activity is the least popular?

**Challenge:** Use the information you have collected to estimate the number of people who might walk across the bridge in one hour.

What steps did you take to figure out your answer?
Brooklyn Bridge Math
Paying Your Way

Use the listing of toll rates below to calculate how much it would cost to cross the bridge in 1883. Show your work in the space provided.

Vocabulary:
Foot passengers: pedestrians, or walkers
railroad: train
vehicle: carriage or wagon, pulled by one or more horses

Foot passengers............................................................1 cent
Railroad fare...............................................................5 cents
One horse, or horse and man........................................5 cents
One horse and vehicle................................................10 cents
Two horses and vehicle...............................................20 cents
For each horse beyond two, attached to any vehicle...........5 cents
Neal cattle, each..........................................................5 cents
Sheep and hogs, each..................................................2 cents

SOURCE: BROOKLYN DAILY EAGLE, JUNE 4, 1883

1. How much will it cost you to walk across the bridge from Brooklyn to Manhattan?

2. In Manhattan you pick up a horse. You ride the horse back to Brooklyn. Now how much do you pay to cross the bridge?

3. The next day you take the train into Manhattan and walk back to Brooklyn. How much money will you need?

4. On market day you take your vehicle and two horses across the bridge. How much does it cost to travel one-way?
Brooklyn Bridge Math
Paying Your Way

5. Later that day your mother travels to Manhattan with four horses pulling her vehicle. How much does she pay one-way?


6. There are five people (including you) in your family. You would like to take the train together to Manhattan. How much money will your family need to pay the fare one-way?


7. You are planning on walking across the bridge with your five hogs. How much will it cost to cross one-way?


8. Your mother lives in Brooklyn and works in Manhattan. She rides the train across the bridge five days a week (Monday-Friday). Below, figure out how much she pays:

Daily (one way)=

Daily (round trip)=

Weekly=

Monthly=

Challenge: Figure out how she can pay her fare using different coin combinations.

Example: 5 cents = P P P P P P or N
Brooklyn Bridge Math
Totally Wired

Use the information below to answer questions about the cables.

278 wires = 1 strand
19 strands = 1 cable

If there are 278 wires in a strand, and 19 strands in a cable, how many wires are in one cable? Answer in a complete sentence.

How did you figure this out? Answer in complete sentences.

Show your work in the space below:
Brooklyn Bridge Math
Totally Wired

Challenge question: How many wires were used to make all 4 cables on the bridge?

How did you figure this out? Answer in complete sentences.

Show your work in the space below: