Parent Guide

Read the Directions sheets for step-by-step instructions.

SUMMARY

In this activity, you and your child will use Google Maps to first find your school, and then find and learn about the closest body of water to your school.

WHY

Working with maps helps children to build visual literacy and begin to develop awareness of geography. By finding a local body of water, children can begin applying their knowledge of maritime history to their own lives.

TIME

20-30 minutes

RECOMMENDED AGE GROUP

This activity will work best for children in kindergarten through 4th grade.

CHALLENGE WORDS

- canal: a human-made waterway dug across land
- **chart**: an outline map that shows geographic information, like water depth, and is especially useful to seafarers
- lighthouse: a structure, often a tower on land or in the water, with a powerful light that gives a signal to guide seafarers
- map: a representation of an area, usually drawn or printed on a flat surface
- maritime: of, relating to, or bordering a body of water
- seafarer: a person who operates or assists in operating a ship

GET READY

Read Keep the Lights Burning, Abbie together. Keep the Lights Burning, Abbie is a work of historical fiction about a teenager who saves the day by running her father's lighthouse during a storm. For tips on reading this book together, check out the Guided Reading Activity (http://americanhistory.si.edu/ourstory/pdf/water/water_reading.pdf).

YOU NEED

- Directions sheets (attached)
- Background sheet (attached)
- One computer or more with Internet

More information at http://americanhistory.si.edu/ourstory/activities/water/







Background Information

For more information, visit the National Museum of American History Web site http://americanhistory.si.edu/ourstory/activities/water/.

or hundreds of years, seacoasts, rivers, lakes, and canals have had a big impact on the ways America has changed as a country. Even Americans who have never seen an ocean are still very connected to water. Eating fish for dinner, playing at the beach, ordering goods made overseas, and other maritime activities continue to play an important role in our lives.

Life and work on the water—for **seafarers**, fishers, passengers, and many others—have included many big challenges and successes, and even some disasters. On shore, many other jobs are connected to **maritime** activities, like moving cargo carried by boats, making fishers.



Image of Matinicus Rock Lighthouse in Maine.

Unknown date

activities, like moving cargo carried by boats, making fishing nets, and running **lighthouses**.

In fog or deep night, a **lighthouse's** beam warns ships away from dangers such as shorelines, shallow waters, and underwater rocks. Because the exact locations of **lighthouses** are marked



Image of Bolivar Point Lighthouse in Texas. *Unknown date*

on charts, the lights help **seafarers** figure out where they are. In the past, **lighthouse** keepers lived in **lighthouses** to make sure the lights were shining every night. Today, many **lighthouses** are run by computers.

For more information, visit the *On the Water* online exhibition at

http://americanhistory.si.edu/onthewater.

What body of water is closest to you?

Use Google Earth and Google Maps to get a birds-eye view and find out!







Directions, page 1 of 4

For adults and kids to follow together.

- 1. Download Google Earth from http://earth.google.com/download-earth.html.
 - Tip Be sure to remember where you saved the application!
 - Tip For technical help with Google Earth, visit (http://earth.google.com/support/).
- 2. From the saved location on your computer, open Google Earth.
- 3. Type your school's address into the "Fly To" bar on the right-hand side of your Google Earth screen.
 - Tip If you don't know the address of your school, look it up online. Enter the name of your school, the name of your town, and the state into a Google search.

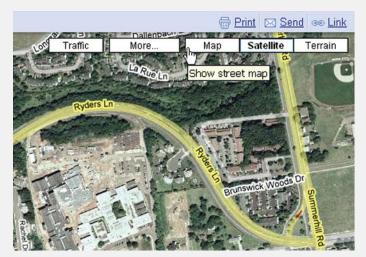






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- 4. How can you tell the water from the land? Using the zoom slider on the left-hand side of your Google Earth screen (with a plus on top and a minus on the bottom), zoom out until you see a dark blue or black area indicating water.
 - Tip Especially with younger children, you may want to switch to the Google Maps view, which has display options that make land and water more easily distinguishable. To do this, go to the File menu and select View in Google Maps. Within Google Maps, switch between the "Map," "Satellite," and "Terrain" options to see which one is most helpful.



Using the Map, Satellite, and Terrain options in Google Maps

- **Tip** On many **maps**, blue is used to show the location of water and green is used to show the location of land.
- 5. *(optional)* Print or send an image of what you found in Google Earth. If you print out the **map**, color the water blue and the land green. Are there any other things you want to mark on your map?
 - Tip The print and e-mail functions are under the File menu.



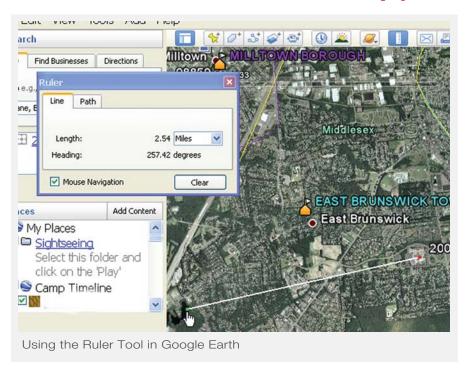


OurStory: Life on the Water

The Water Nearby

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from your school to the water. First, go to the Tools menu and select Ruler. A small window, labeled "Ruler," should appear.
Using your cursor, click on your school, which should make a small dot appear on your school's location.
Finally, click on the closest body of water. In the small grey "ruler" window, the "length" tells you how far away the water is from your school.



- 7. In Google Earth or Google Maps, use the **map** to see if the water is connected to any other body of water. Where does it start or end?
 - Tip In either Google Earth or Google Maps, simply click on the map and drag your mouse to change the view.
 - Tip If you wanted to take a trip on the water by boat or ship, you would need to look up the chart for that body of water. Charts are maps that include information about water depth. Charts help seafarers find safe routes and avoid shallow water. The government's charts are online at http://www.nauticalcharts.noaa.gov/mcd/OnLineViewer.html.
- 8. Switch to Google Maps to see the name of the body of water. Within Google Maps, switch between the "Map," "Satellite," and "Terrain" options to see which one is most helpful.







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- 9. In another Internet browser window, search for information about the body of water you have found. Can you learn more about its history?
 - If it's a large body of water, are there any businesses that rely on that water for success? How do the businesses differ in their use of the water? Does the body of water have any bridges or docks?
 - If it's a small body of water, take a look in the satellite view in Google Earth. Are there any structures at all near the water? Why would people choose to live or build something near the water? How might those people use the water?
- 10. (optional) Google Earth includes lots of interesting information from outside organizations that can be added to your map in "layers." Check out the maritime related information by turning on the layers for "Oceans."
 - Tip The "State of the Ocean"

 includes information from

 the National Ocean Service,

 the Monterey Bay

 Aquarium, the Virginia

 Institute of Maritime

 Science, and others.
 - Tip The "National Geographic"
 layer connects map
 locations to magazine
 articles and the Ocean
 Atlas.









Teacher Guide, page 1 of 3

Read the Directions sheets for step-by-step instructions.

SUMMARY

Students will use Google Earth and Google Maps to find their schools. They will then find and learn about the closest body of water to the school.

RATIONALE

In this activity, students will use multiple maps to explore answers to several different questions. Working with maps helps students to build visual literacy, begin to develop awareness of geography, and support the use of logical and spatial intelligences.

By finding a local body of water, students begin applying their knowledge of maritime history to their own lives. By applying knowledge, the information acquisition process becomes deeper, more meaningful, and, according to some educational theorists, longer-lasting.

OBJECTIVES

The students will be better able to:

- Use maps.
- Identify and/or describe a nearby body of water.

TIME

20–30 minutes

AGE GROUP: K-4

TARGET VOCABULARY:

- canal: a human-made waterway dug across land
- **chart**: an outline map that shows geographic information, like water depth, and is especially useful to seafarers
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OurStory: Life on the Water

The Water Nearby

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MATERIALS

- Directions sheets (attached)
- Background sheet (attached)
- One or more computer with Internet

PREPARATION

Read Keep the Lights Burning, Abbie together. Keep the Lights Burning, Abbie is a work of historical fiction about a teenager who saves the day by running her father's lighthouse during a storm. For tips on reading this book together, check out the Guided Reading Activity (http://americanhistory.si.edu/ourstory/pdf/water/water_reading.pdf).

STUDENT PERFORMANCE CRITERIA

- Use maps to ...
 - Name a nearby body of water.
 - Identify buildings and other structures.
 - Identify geographic features.

STANDARDS

NCHS History Standards

K-4 Historical Thinking Standards

2H: Draw upon data in historical maps.

K-4 Historical Content Standards

- 2A. The student understands the history of his or her local community.
- 8B. The student understands changes in transportation and their effects.

IRA/NCTE Language Arts Standards

8. Students use a variety of technological and information resources (e.g., libraries, databases, computer networks, video) to gather and synthesize information and to create and communicate knowledge.







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21st-Century Skills

Learning and Innovation Skills

Critical Thinking and Problem Solving

Information, Media, and Technology Skills

- Media Literacy
- ICT (Information, Communications, and Technology) Literacy

ISTE Education Technology Standards for Students (NETS.S)

Research and Information Fluency

C. Evaluate and select information sources and digital tools based on the appropriateness to a specific task.

Technology Operations and Concepts

- A. Understand and use technology systems.
- B. Select and use applications effectively and productively.



