

From Source To Sea: Worksheet



Whether you are preparing to come sailing aboard the Hudson River Sloop *Clearwater*, the Schooner *Mystic Whaler* or simply learning more about your major waterways, this activity will allow you to see some of the splendor of the Hudson River and understand how you are connected to it.

In this lesson you will spend some time looking at the pictures and maps in the “Source to Sea” Photo Gallery, fill out the following questions, define the vocabulary terms and complete the Plotting Activity. You will have to click through the slides a few times to gather all the information needed to answer the questions.

Questions:

1. What is the source of the Hudson River?
Lake _____, Mount _____
2. What is the altitude or, how high above sea level does the Hudson River begin?
3. How many miles long is the entire Hudson River?
4. What state or states boarder the banks of the Hudson River?
5. Name at least three animals you see on, in or near the Hudson River?
6. Name at least three bridges that span the Hudson River: (that you see here, or know from previous experience)
7. What is the Northern-most point where the Hudson River becomes large enough for ships and barges?
8. What other major river flows into the Hudson River?

9. There are two wooden ship replicas portrayed in the photos, what two sailing vessels are named?

10. Name at least three of the large land features that the Hudson River flows past: (mountains, cliffs or hills)

11. Name at least three things that you see as challenges to the Hudson River's environmental health:

Plotting Activity:

Using the River Mile Map, complete the following instructions and questions:

1. Draw a full compass rose on the map with all of the following cardinal directions: (north, south, east, west, northeast, southeast, southwest, northwest)
2. How many river miles long is the Hudson River on this map? _____
How many more miles are not being shown? _____
Why might this be a logical portion of the river to show?

3. Draw AND label the following bridges in blue across the Hudson River at their correct river miles: (fill in others if you know where they are too)

George Washington Bridge =
Tappen Zee Bridge =
Bear Mountain Bridge =
Mid-Hudson Bridge =
Rip Van Winkle Bridge =

4. Defining the Topography:
 - Locate, color in green and label the **Catskill Mountains**: You could see them if you stood anywhere between Catskill and Kingston and looked West.
 - Locate, color in green and label the **Hudson Highlands**: They line the east and west banks of the river between Beacon and Peekskill.

- Locate, color in green and label the **Palisade Cliffs**: the closely line the western shore of the Hudson River across from Yonkers.

5. Locate Hudson River Environmental Challenges:

Group A: (in orange)

Indian Point Nuclear Power Plant =
Albany Sewer Discharge =
Danskammer Power Plant =

Group B: (in red)

Agricultural Runoff =
Water Level Rise (from Climate Change) =
Litter =

What do you notice is different about Group A and Group B?

6. Is your home or school near the Hudson River?

If you went directly towards the Hudson River which river mile would you come closest to?

Are you affected by any of the environmental problems the Hudson River faces?

Vocabulary: Look up the following terms and write a brief definition of each, in your own words.

Headwaters:

Watershed:

Tributaries:

Estuary:

Replica:

Point Source Pollution:

Non-point Source Pollution: