

Long Island's Water Quality Research Project

Literacy Connections

WHST.6-8.9

SL.8.5

RST.6-8.7

Draw evidence from informational texts to support analysis, reflection, and research.

Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.

Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).

Engage

Visual: Students showcasing projects from prior years during schoolwide Water Day celebration

Explain

Ask: what are some challenges that may affect the quality of Long Island's drinking water?

Brainstorm list and post in classroom

Offer several possible contaminates/sources of pollutants:

Cesspool and sewage

Fuel tank leaks...gas stations

Fertilizers used on lawns and on farms

Pesticides

Dry cleaning solvents

Motor oil

Industrial waste

Road salt

Landfill leaching

Explore

Distribute Long Island Water Quality Research Project to students

Instruct students to identify problem/challenge that faces Long Island's water quality

Introduce and explore variety of water pollution websites...

Instruct students to browse through sites with the direction/goal of finding one pollutant that currently affects to the quality of Long Island's drinking water

Stress to students that this project is to bring awareness to the school community, reiterating that there are plans and procedures being implemented to clean/purify our water

Conference with students individually for clarification of project

Monitor and assist with choosing reliable websites as well as taking notes and citing sources used

Evaluate

Formulate Question to investigate

Explain in detail Purpose of choosing this challenge

Describe research, investigation, demonstration, survey, etc.

Develop research report

Include drawings, photographs, graphs, water cycle diagram, images....

Elaborate

Putting it all together ... Peer Review...any changes?

Construct backboard.

What have you learned?

Name

Long Island Water Quality Research Project

Identify the problem or challenge that faces Long Island Aquifer? **Teacher approval** _____
Write it here:

Formulate a research question to investigation.
Write it here:

State the purpose of this research project.
Write it here:

Gather facts and data related to the research question. Does this data answer your question?
Remember to list your resources below:

- 1.
- 2.
- 3.

State your solution/conclusion. Remember, this project is not all about gloom and doom. OK, we're polluting our aquifers. How can we fix it? How can we stop it? How can we make others aware?
Write your solution here:

Review and Revise

Share presentation...suggestions made by peers?

Presentation

Determine best method to present problem and solution

Investigation, Demonstration, Video?

Identify all materials needed/used and how they were used

Visuals: Diagrams, Photographs, Surveys, Graphs?

Be sure to include your water cycle diagram and indicate which component is most impacted by this problem/challenge.

Bibliography: Sources used

Name

Research Time Management and Reflection Log

Date	What have you accomplished today?	What is left?
April 8		
April 15		
April 18- April 28		
April 29		
May 6		
May 13		