

SECONDARY STUDENT SELF REPORT ITEMS

Pre/Post Matching Code

Assign each student a unique code for matching pre- and post-tests.

Connection with Nature					
How much do you agree or disagree with these statements?					
	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I like being in nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to play outdoors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to spend time outdoors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like sitting in sand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like sitting in grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm OK with getting my hands dirty	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm OK with sticking my hand in river water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm OK with stepping in mud	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to touch water insects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to touch living fish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to touch plants in a stream, pond, lake or the ocean	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking through a creek sounds like fun	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Picking through algae from a pond sounds like fun	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Connection to Water					
Now you're going to answer some questions about local bodies of water. Examples of local bodies of water are streams, rivers, lakes, bays, and the ocean.					
How much do you agree or disagree with these statements?					
	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I like to learn about a local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I search for information to learn about a local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I want to explore a local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I care about a local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Science Inquiry Skills			
Do you know how to ...			
	No	Yes	Not sure
Create science questions that you could answer by collecting data (measurements)?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make predictions or hypotheses?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collect data (measurements) or use data collected by someone else?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze the data and figure out what it means?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make conclusions about what you found out?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Present to others what you found out about your science question?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Science Engagement					
How much do you agree or disagree with these statements?					
	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I usually do well in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would like to take more science in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I enjoy learning science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learn things easily in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would like a job that involves using science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I need to do well in science to get the job I want	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Conserve Water			
Choose one answer for each statement.			
	No	Yes	Not sure
To conserve water, I would be willing to use less water when I shower or take a bath	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To conserve water, I turn off the water while I was my hands	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To conserve water, I turn off the water while I brush my teeth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Knowledge of Actions and Intention to Act

For each statement, mark a response to "I know how to..." and a response to "Within the next year, I plan to..."

	I know how to...					Within the next year, I plan to ...		
	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	No	Yes	Not sure
Help clean up or take care of a local stream, river, or beach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participate in a restoration activity such as planting trees or removing invasive plants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tell others about ways they can protect a local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Create a schoolyard or backyard habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conserve water at home or school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Install a rain barrel at home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Give a presentation about a local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Knowledge of Issues

How much do you know about ?

	Nothing	A little	A lot	Not sure
The loss of forests and other plants along streams and rivers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High levels of nutrients in water and where they come from	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The loss of important habitats such as wetlands and underwater plants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High levels of sediment (soil) in the water and where it comes from	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Locus of Control					
How much do you agree or disagree with these statements?					
	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
By working on my own, I can make a difference in solving environmental problems at my school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By working on my own, I can help protect the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There are things I can do that will protect the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By working with others, I can make a difference in solving environmental problems at my school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By working with others, I can help protect the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If everyone does their part, we can protect the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My community can make a difference in protecting the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

POST-TEST ONLY!

Branching Questions
Did you learn during this school year about a local body of water and the land that drains into it?
<input type="radio"/> No
<input type="radio"/> Yes
<input type="radio"/> Not sure
If responded Yes to “Did you learn during this school year about a local body of water and the land that drains into it?”, then answer this question:
When you learned about a local body of water and the land that drains into it, did you go outside?
<input type="radio"/> No
<input type="radio"/> Yes
<input type="radio"/> Not sure
If responded Yes to “When you learned about a local body of water and the land that drains into it, did you go outside?, then answer this question:
When you went outside to learn about a local body of water and the land that drains into it, did you go out ... (choose one)
<input type="radio"/> On the school property?
<input type="radio"/> To an area within walking distance of school?
<input type="radio"/> To an area you had to take a car or bus to get to?
If responded Yes to “When you learned about a local body of water and the land that drains into it, did you go outside?, then answer this question:
About how many times did you go outside during this school year to learn about a local body of water and the land that drains into it?
<input type="radio"/> I don't remember
<input type="radio"/> Once
<input type="radio"/> 2-5 times
<input type="radio"/> 6 or more times

If responded Yes to “When you learned about a local body of water and the land that drains into it, did you go outside?, then answer this question:

Preparation/Action/Reflection

Choose one answer for each statement.

	No	Yes	Not sure
BEFORE we went outside to learn, we talked about what we were going to do outside.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
What we learned about local bodies of water in class was closely related to what we found out about them when we were outside.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
We learned about related science concepts BEFORE we went outside to learn about local bodies of water.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
While we were outside, I spent time collecting samples or taking measurements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Either outside of back in the classroom, I spent time analyzing the data or samples I collected while outside.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
While we were outside, I spent time helping to protect the area.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Things we learned outside helped me better understand what I learned during regular science class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AFTER we had gone outside, I had a chance to talk with my teacher and other students about what we did and learned.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If responded Yes to “When you learned about a local body of water and the land that drains into it, did you go outside?, then answer this question:

Satisfaction

How much do you agree or disagree with these statements?

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
I liked learning about a local body of water and the land that drains into it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It was fun to learn about a local body of water and the land that drains into it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I liked to do the things we did outside while we were learning about a local body of water and the land that drains into it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I wish we would have spent more time learning about a local body of water and the land that drains into it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Demographics

What grade are you in? (please check one)

- Grade 6
- Grade 7
- Grade 8
- Grade 9
- Grade 10
- Grade 11
- Grade 12

In science, do you usually get...

- Mostly A's?
- Mostly B's?
- Mostly C's?
- Mostly D's or below?
- Our school does not give this type of grades
- I prefer not to answer

Do you identify as (check all that apply):

- Hispanic or Latino
- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or other Pacific Islander
- White
- Other
- I prefer not to answer

Do you mostly speak English at home?
<input type="radio"/> No
<input type="radio"/> Yes
<input type="radio"/> I prefer not to answer

Are you
<input type="radio"/> Male
<input type="radio"/> Female
<input type="radio"/> I prefer not to answer

ELEMENTARY STUDENT SELF REPORT ITEMS

Pre/Post Matching Code

Assign each student a unique code for matching pre- and post-tests.

Connection with Nature				
Choose one answer for each statement.				
	Not at all	A little	A lot	Not sure
I like being in nature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to spend time outdoors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like sitting in sand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like sitting in grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm OK with getting my hands dirty	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm OK with sticking my hand in river water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm OK with stepping in mud	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to touch water insects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to touch living fish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking through a creek sounds like fun	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Picking through algae from a pond sounds like fun	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Now you're going to answer some questions about local bodies of water. Examples of local bodies of water are streams, rivers, lakes, bays, and the ocean.

Connection to Water

Choose one answer for each statement.

	Not at all	A little	A lot	Not sure
I like to learn about my local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I search for information to learn about my local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I want to explore my local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I care about my local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Science Inquiry Skills			
Do you know how to do these things?			
	No	Yes	Not sure
Create science questions that you could answer by collecting data (measurements)?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make predictions or hypotheses?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collect data (measurements) or use data collected by someone else?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze the data and figure out what it means?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make conclusions about what you found out?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Present to others what you found out about your science question?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Conserve Water			
Choose one answer for each statement.			
	No	Yes	Not sure
To conserve water, I would be willing to use less water when I shower or take a bath	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To conserve water, I turn off the water while I was my hands	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To conserve water, I turn off the water while I brush my teeth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Science Engagement			
Choose one answer for each statement.			
	No	Yes	Not sure
I usually do well in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would like to take more science in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I enjoy learning science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learn things easily in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would like a job that involves using science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I need to do well in science to get the job I want	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Knowledge of Issues				
Choose one answer for each statement.				
	Nothing	A little	A lot	Not sure
The loss of forests and other plants along streams and rivers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High levels of nutrients in water and where they come from	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The loss of important habitats such as wetlands and underwater plants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High levels of sediment (soil) in the water and where it comes from	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Intention to Act			
Within the next year, I plan to ...			
	No	Yes	Not sure
Help clean up or take care of a local stream, river, or beach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participate in a restoration activity such as planting trees or removing invasive plants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tell others about ways they can protect a local body of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conserve water at home or school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Locus of Control			
Choose one answer for each statement.			
	No	Yes	Not sure
By working on your own, do you think you can help protect a local body of water?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
By working with others, do you think you can help protect a local body of water?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

POST-TEST ONLY!

Branching Questions
Did you learn about a local body of water and the land that drains into it during this school year?
<input type="radio"/> No
<input type="radio"/> Yes
<input type="radio"/> Not sure

If responded Yes to “Did you learn about a local body of water and the land that drains into it during this school year?”, then respond to this question:
When you learned about a local body of water and the land that drains into it, did you go outside?
<input type="radio"/> No
<input type="radio"/> Yes
<input type="radio"/> Not sure

If responded Yes to “When you learned about a local body of water and the land that drains into it, did you go outside?” then answer this question:
When you went outside to learn about a local body of water and the land that drains into it, did you go out ... (choose one)
<input type="radio"/> On the school property
<input type="radio"/> To an area within walking distance of school
<input type="radio"/> To an area you had to take a car or bus to get to

If responded Yes to “When you learned about a local body of water and the land that drains into it, did you go outside?”, then respond to this question:

Choose one answer for each statement.

Satisfaction

	Not at all	A little	A lot	Not sure
I liked learning about a local body of water and the land that drains into it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It was fun to learn about a local body of water and the land that drains into it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I liked to do the things we did outside while we were learning about a local body of water and the land that drains into it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I wish we would have spent more time learning about a local body of water and the land that drains into it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If responded Yes to “When you learned about a local body of water and the land that drains into it, did you go outside?”, then respond to this question:

Preparation/Action/Reflection

Choose one answer for each statement.

	No	Yes	Not sure
BEFORE we went outside to learn, we talked about what we were going to do outside.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
While we were outside, I spent time collecting samples or taking measurements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
While we were outside, I spent time helping to protect the area.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AFTER we had gone outside, I had a chance to talk with my teacher and other students about what we did and learned.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Demographics

What grade are you in?

- Grade PreK, 1, 2, or 3
- Grade 4
- Grade 5
- Grade 6
- Grade 7
- Grade 8
- Grade 9, 10, 11, or 12

In science, do you usually get...

- Mostly A's?
- Mostly B's?
- Mostly C's?
- Mostly D's or below?
- Our school does not give this type of grades
- I prefer not to answer

Do you identify as (check all that apply):
<input type="checkbox"/> Hispanic or Latino
<input type="checkbox"/> American Indian or Alaska Native
<input type="checkbox"/> Asian
<input type="checkbox"/> Black or African American
<input type="checkbox"/> Native Hawaiian or other Pacific Islander
<input type="checkbox"/> White
<input type="checkbox"/> Other
<input type="checkbox"/> I prefer not to answer

Do you mostly speak English at home?
<input type="radio"/> No
<input type="radio"/> Yes
<input type="radio"/> I prefer not to answer

Are you
<input type="radio"/> Male
<input type="radio"/> Female
<input type="radio"/> I prefer not to answer

SECONDARY STUDENT WATERSHED LITERACY ITEMS

Pre/Post Matching Code

Assign students a unique code for matching pre- and post-tests.

Demographics

What grade are you in?

- Grade PreK, 1, 2, or 3
- Grade 4
- Grade 5
- Grade 6
- Grade 7
- Grade 8
- Grade 9, 10, 11, or 12

In science, do you usually get...

- Mostly A's?
- Mostly B's?
- Mostly C's?
- Mostly D's or below?
- Our school does not give this type of grades
- I prefer not to answer

Do you identify as (check all that apply):

- Hispanic or Latino
- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or other Pacific Islander
- White
- Other
- I prefer not to answer

Do you mostly speak English at home?

- No
- Yes
- I prefer not to answer

Are you

- Male
- Female
- I prefer not to answer

Objective 1: Define the term "watershed"

How sure are you that you know what a watershed is?

- Not at all sure
- A little sure
- Very sure
- I'm positive

Which of these is the best definition of a watershed?

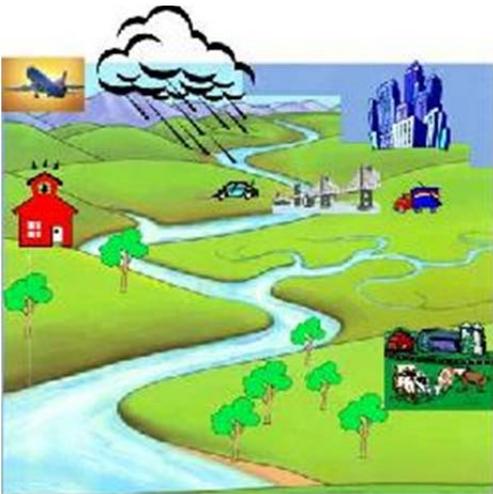
- A building at a water treatment plant
- An area of land that drains into a specific body of water
- A significant pollution event
- Another name for a river or stream
- Don't know

How sure are you that you know what groundwater is?

- Not at all sure
- A little sure
- Very Sure
- I'm positive

Watersheds contain groundwater.

- No
- Yes
- Don't know



Look at the picture. Which of the following is in this river's watershed?

	No	Yes	Don't know
The red school building	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The farm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The city	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The small creek on the right	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Objective 2: Identify their local watershed(s)

Do you live in a watershed?

- No
- Yes
- Don't know

Objective 3: Identify how watersheds are connected to the ocean via streams, rivers, and human-made structures

Where does most of the water from the land eventually end up?

- Ocean
- River
- Sewer
- Lake
- Don't know

How sure are you that you know what a storm drain is?

- Not at all sure
- A little sure
- Very sure
- I'm positive

Ultimately, where does water end up after it enters a storm drain?

- Wastewater treatment plant
- A local body of water
- In the ground
- City sewer
- Don't know

Objective 4: Identify the functions that occur in a watershed (transport, store, and cycle water)

What are some of the functions that occur within a watershed?

	No	Yes	Don't know
The transport of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The transport of materials, like soil through rivers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The storage of water in lakes, rivers, groundwater, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The transformation of water from one state to another (liquid, ice, vapor, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Objective 5: Recognize that both natural processes and human activities affect water flow and water quality in watersheds

Which of these statements is FALSE? Watershed boundaries ...

- Hardly ever change; they are nearly permanent
- Can sometimes be changed by the actions of people
- Can sometimes be changed by natural processes
- Are constantly altered by both human activities and natural processes
- Don't know

Which of the following can change how water drains in a watershed?

	No	Yes	Don't know
A flood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A landslide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A dam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The construction of a storm drain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How sure are you that you know what stormwater is?

- Not at all sure
- A little sure
- Very sure
- I'm positive

Stormwater pipes are similar to streams and creeks because they both:

- Usually have greater water flow when it storms
- Are natural habitats for plants and animals
- Are constructed by people
- Usually receive most of the water from drains and ditches
- Don't know

When trees in a watershed are cut down and replaced with pavement and buildings, ...

	No	Yes	Don't know
More water will drain into local rivers and lakes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More water will drain into groundwater	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water will drain into local rivers and lakes faster	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There will be a greater chance of flooding and erosion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Vegetated buffers (that is, trees, shrubs, other plants along streams, rivers, and estuaries) ...

- Increase flooding along streams and rivers
- Decrease erosion and filter water flowing to streams and rivers
- Increase erosion and filter run-off along streams and rivers
- Increase the nutrients that flow into water
- Don't know

Which human activities might increase water pollution?

	No	Yes	Don't know
Water running off people's yards and farm fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water running off streets and parking lots	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Putting chemicals down storm drains	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Draining wetlands, such as marshes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Removing trees and other plants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Nutrients (such as nitrogen and phosphorus) in a stream, river, lake, or ocean can be a form of pollution.

- No
- Yes
- Don't know

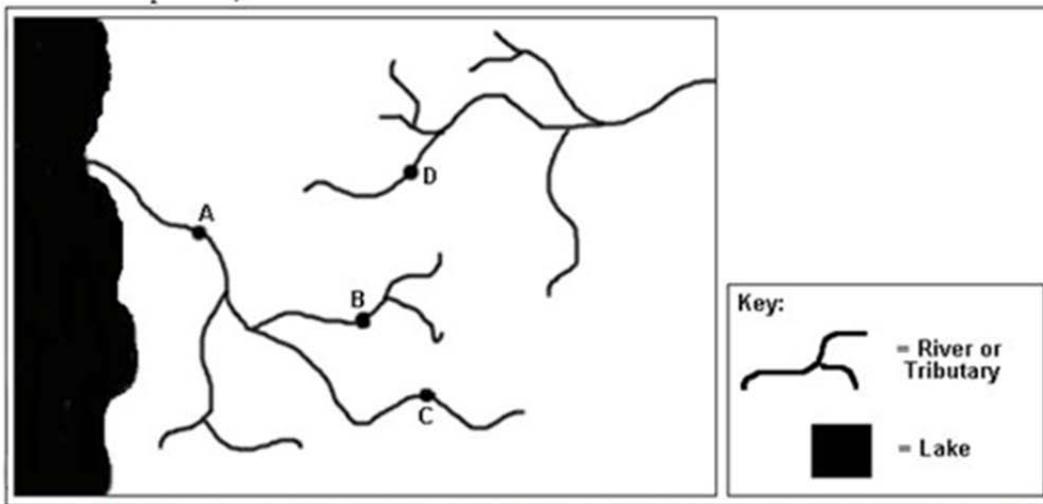
Objective 6: Identify connections between human welfare and water flow and quality

The quality of the water in rivers, lakes, and the ocean can affect the health of people living near them.

- No
- Yes
- Don't know

The water from bodies of water, such as rivers and creeks, is used ...

	No	Yes	Don't know
for drinking after it's cleaned	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
for farming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
by wildlife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



If a pollutant is put into the river at Town C, which town(s) (if any) would be directly affected by the pollution? Check all that apply.

- A
- B
- C
- D

Objective 7: Identify possible point and non-point sources of water pollution

How sure are you that you know what non-point source pollution is?

- Not at all sure
- A little sure
- Very sure
- I'm positive

Which of these is a type of non-point source pollution?

	No	Yes	Don't know
Oil in the water running off of streets and parking lots	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soil in the water running off of farm fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fertilizer in the water running off of lawns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Chemicals in the water coming out of a factory pipe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Rivers are the major ways through which non-point source pollution enters the ocean.

- No
- Yes
- Don't know

How sure are you that you know what point source pollution is?

- Not at all sure
- A little sure
- Very sure
- I'm positive

Controlling point source pollution is typically easier than controlling non-point source pollution.

- No
- Yes
- Don't know

Objective 8: Identify actions individuals can engage in to protect/restore water quality in watersheds

Which of the following would help keep water clean?

- Disposing of household chemicals down the drain
- Washing the car on the grass instead of on pavement
- Leaving the water running while brushing teeth
- Cutting down native trees in the woods
- Don't know

People can help protect the water in their local watershed by:

	No	Yes	Not sure
Conserve water at home or school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Help clean up or take care of a local stream, river, or beach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participate in a restoration activity such as planting trees or removing invasive plants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please use the following reference, if you plan to use this resource:

Zint, M. and A. Kraemer. 2012. NOAA B-WET Evaluation System Plan: Student Item Bank. Bay Watershed Education and Training Program, National Oceanic and Atmospheric Administration, Washington, D.C.

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