

Attachment 11: Secondary Student Self-Report Items

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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"/>

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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"/>

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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?

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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?

- I don't remember
- Once
- 2-5 times
- 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"/>

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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

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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