PROJECT PLANNING FORM

Project title:	Quality of Water
Teacher(s):	Ma Huggins
School:	Baltimore Lat School
Grade level(s):_	12dx
Subjects:	Environmental Science

Patrick M. Emily L.

STANDARDS-FOCUSED PROJECT BASED LEARNING Buck Institute for Education

Find warp to Kelp community with

Craft the Driving Question

State the essential question or problem state and find the
State the essential question or problem statement for the project. The statement should encompass all project content and outcomes.
should encompass all project content and outcomes, and provide a central focus for student inquiry.
• •

To see the stream.

What is the water quality in the Jones Falls stream?

· Evaluate the Realth of the Stream.

- · Visit Jones Falls Stream
- . Look at it
- · Change it.

How much water do we use?
Where does it go?
Map of water shed

Have you posed an authentic problem or significant question that engages students and requires core subject knowledge to solve or answer?

Begin with the End in Mind

Summarize the theme for this project. Why do this are in a
Summarize the theme for this project. Why do this project?
Evaluate the Lealth of the Jones Face. Look at it
· Water quality Tests
Identify the content standard that students will learn in this project (two to three per subject).
÷
Telegraphic de la latera de latera de la latera de latera de la latera de la latera de latera de la latera de latera de la latera de la latera de latera de la latera de la latera de la la
Identify key skills students will learn in this project. List only those skills you plan to assess (two to four per person).
Sign up for Maryland Stream Waders?
* Safety guide lines Subwater shed # Man
Subwater shed # Map
Sill "
Identify the habits of mind that students will practice in this project (one to two per project).
Does the project meet the criteria for standards focused BB18

Plan the Assessment

Step 1: Define the products for the project. What will you assess?	
Early in the Project:	
Find the stream and watersled	
BLS is in.	
Jones Falle	
During the Project:	
Look at it	
· Stream buffers	
" amount of impervious surface	
· living organizms · flooding	
Tests o water quality (pollutants) o sedimen	d
gardine garbage garbage	
" water temp affects living organizario	
End of the Project:	
· turbidity - how much sun?	
send to DNR for "buy identification"	
Clean the stream.	
get garbage out report to DNR too > sediment	
plant trees or buffers	

Map the Project

What do students need to know and be able to do to complete the tasks successfully? How and when will they learn the necessary knowledge and skills? Look at one major product for the project and analyze the tasks necessary to produce a high-quality product.

Product: Clean the.	Jones F	-alls	
KNOWLEDGE AND SKILLS NEEDED	ALREADY HAVE LEARNED	TAUGHT BEFORE THE PROJECT	TAUGHT DURING THE PROJECT
1. \$15 mapping skills			/
2. Amp: Vocabulary	/	/	/
3. Directions to gones Falls	7		
3. Directions to Gones Falls 4. Where will we go? 5. What will we do?	3.		
5. What will we do?			
6.			
7.			
8.			
9.			
10.			
11.			
What project tools will you use?			
□ Know/need to know lists			
I Journals	O		
D. D. i.o. fo	U		
Task lists	U		
□ Problem logs	0		

• Do the products and tasks give all students the opportunity to demonstrate what they have learned?

Map the Project (2)

List the key dates and important milestones for this project. Pline Use the Tuning Protocol with other teachers or a group of students to refine the project design or guide you further in your planning. What other thoughts do you now have on the project? What challenges or problems might arise in this project?

Manage the Process

student	parations necessary to address needs for differentiated instruction for ESI s, special-needs students, or students with diverse learning styles.	_
How will	you and your students reflect on and evaluate the project?	
□ Class di	scussion	
Fishbow	1	
Student	-facilitated formal debrief	
Teacher	-led formal debrief	
Student-	facilitated formal debrief	
Individua	al evaluations	
Group ev	raluations	
Other:		
		_

• What do you expect to learn from this project?

	3. What will		Project: Clean the Jones Fa MONDAY TUE
PROJECT WEEK THR		PROJECT WEEK TW	PROJECT CALE SDAY WEDNESDAY PROJECT WEEK O Puk shum Jonestalla
mm		70	NDAR 2/21/2013 THURSDAY FRIDAY NE To do list: In Map of water shed 2 check out Subwriter shed # ## Sut # Mayland Stream Where? Wallera info

Zimbra

child@labschool.org

Thu, Feb 21, 2013 10:41 AM

From: Patricia Child <patricia.child@labschool.org>

Subject: < No Subject>

To: Patricia Child <child@labschool.org>

Safety Guidelines Safety is important to everyone. To have a successful and safe sampling expedition, caution should be used while sampling your stream site.

Always take a buddy.

Be cautious of fast or deep waters. Do not sample if the water is dangerously fast.

banned in Maryland. Wear shoes or waders that are in good condition and have traction. Never wear sandals or open-faced shoes. Do not use felt-soled waders. They are

you will sample. ALWAYS OBTAIN PERMISSION TO CROSS PRIVATE PROPERTY TO GET TO A SAMPLING SITE. Be sure that the landowners know exactly when and where

Contact your nearest health department or Maryland Department of the Environment

Leave wildlife alone. Do not disturb the vegetation on the streambanks or feed wild animals [(410) 537-3000] for specific warnings regarding local streams. Some stretches of streams may be subject to high levels of pollutants

Bring a change of clothes in case you get wet. Stream water is usually quite cold in March and April.

windshield. Watch traffic while parking near your sample site and getting in and out of your car. Display your DNR Stream Waders logo prominently on your

Avoid getting ethanol (the preservative for your samples) on your skin. If you do, wash immediately with plenty of water. Make sure all alcohol containers (carboy and benthic sample buckets) are tightly sealed and stored securely in your car during transport.

atti Child

Outdoor Education Coordinator

Master Watershed Steward of the Chesapeake Bay

Swim Coach

http://www.baltimorelabschool.org

"Learning disabled youngsters can learn how to learn. They can succeed!"

Sally L. Smith

1 of 1

child@labschool.org

Thu, Feb 21, 2013 10:43 AM

From: Patricia Child <patricia.child@labschool.org>

Subject: < No Subject >

To: Patricia Child <child@labschool.org>

Each team of Stream Waders volunteers will be provided with the following equipment and supplies at the training sessions: GPS (Global Positioning System) unit (1)

- D net (1)
- Sieve bucket (1)
- Benthic sample buckets with lids (*)
- Paper labels for benthic sample buckets (*)
- Carboy with about 5 gallons of alcohol (1*)
- Waterproof Site Survey Form (*)
- Land owner permission letter (*)
- Letter for landowners interested in more information (*)
- Laminated map of sampling subwatershed (*)
- Photocopy of street maps of sampling subwatershed area (*)
- Round color stickers for labeling sites on laminated maps (*)
- Pencil for labeling benthic samples (1)
- Clipboard (1)
- Site Survey Form (*)
- Chain of Custody Form(*)
- Stream Waders hat (1 per person)
- Windshield sign (1)
- Rubber Gloves (1)
- Bleach spray bottle (1)
- Bottle of bleach to mix to 10% in spray bottle (1)
- (st) indicates number of item will vary according to the number of sites sampled.

Outdoor Education Coordinator

Master Watershed Steward of the Chesapeake Bay

Swim Coach

<u> http://www.baltimorelabschool.org</u>

"Learning disabled youngsters can learn how to learn. They can succeed!"

child@labschool.org

Thu, Feb 21, 2013 10:45 AM

From: Patricia Child <patricia.child@labschool.org>

Subject: < No Subject>

To: Patricia Child < child@labschool.org>

Contact DNR Stream Waders

Use the following information to contact DNR Stream Waders staff or to get periodic updates on the Stream Waders program.

410-260-8623 (Annapolis local number)

1-877-620-8DNR [extension 8623] (toll free in Maryland)

email: streamwaders@dnr.state.md.us

World Wide Web:

To check out the Stream Waders searchable database, go to: http://mddnr.chesapeakebay.net/mbss/streamwaders.cfm For general information on the Stream Waders Program, go to: http://www.dnr.state.md.us/ streams/mbss/mbss_volun.html

Patti Child

Outdoor Education Coordinator

Master Watershed Steward of the Chesapeake Bay

Swim Coach

http://www.baltimorelabschool.org

Sally L. Smith "Learning disabled youngsters can learn how to learn. They can succeed!"

l of I