I. Introduction and Background Questions

Welcome to the MSP Pathways Project 2013 Teacher Survey. This survey should be completed by all teachers in the project at the end of the school year.

THANK YOU for completing the survey. It provides us with essential information to help maximize the value of the MSP Pathways Project to students and teachers.

*1. Please write your full name. Only project researchers have access to your names, and we will only use your name to track who has (or hasn't) taken the survey. Your name will

	detached from your responses prior to data analysis and will not be used in our
rep	orts.
*2	2. Where do/did you teach?
0	California
0	Colorado
0	Maryland
0	Michigan
0	New York
0	Other
If oth	ner State, please specify:
II. K	Inowledge and Skills of Teachers
The	MSP Pathways Project focuses on these large topics within environmental science:
Car	bon - carbon cycling in the environment; photosynthesis, respiration, storage; climate change
Wat	ter - Water cycling in the environment; moving water pathways and processes; substances in water
Bio e web	diversity – Species populations and communities in the environment; evolution and adaptations; food and interaction as
	Briefly explain how you these large topics - Carbon, Water and Biodiversity - relate to

improving so	meone's environmental science literacy.
-	our answers to the following questions, bring to mind the class you have tly that includes the most environmental science.
Write the na	ne of the class:
Na a a a a a a a a a a a a a a a a a a	
	next three questions with the class you identified above in mind.
-	ic do you emphasize the most in your teaching in that class?
Carbon	
O Water	
O Biodiversity	
5. In 50 word	s or less, write ONE important understanding for this topic that you think
students in t specific as p	Is or less, write ONE important understanding for this topic that you think his particular class should master by the end of your instruction. Be as ossible, considering the grade, students, and context of your class.
students in t specific as p 6. If you had	his particular class should master by the end of your instruction. Be as ossible, considering the grade, students, and context of your class. to convince students in the class that the understanding you described
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MSP Pathways F	Project 2013 Teacher Survey
7. Please complete	the following phrases about your thinking about Learning
Progressions:	
a. I used to think Learning Progressions were	
b. Now I think Learning Progressions are	
8. Please describe past year.	how you used Learning Progressions in your science teaching over the
	how your participation in the MSP Pathways Project influenced your gressions over the past year, if at all.
	▼
III. Curriculum Im	plementation
Please tell us about your your participation in the p	implementation of the Teaching Experiments (TE) and other teaching you've done as a result of project.
1. Please indicate to Experiment (TE).	he extent to which you taught the Carbon Teaching
(·	I didn't teach it at all I taught a small part of it I taught much or all of it
Carbon TE	О О О
If you answered "not at all" or "	'small part", please explain why you didn't teach more of the TE.

MSP Pathways Project 2013 Teacher Survey 2. Please indicate the extent to which you taught the Water Teaching **Experiment (TE).** I taught a small part of it I taught much or all of it I didn't teach it at all 0 If you answered "not at all" or "small part", please explain why you didn't teach more of the TE. 3. Please indicate the extent to which you taught the Biodiversity **Teaching Experiment (TE).** I didn't teach it at all I taught a small part of it I taught much or all of it Biodiversity TE If you answered "not at all" or "small part", please explain why you didn't teach more of the TE. 4. Please indicate the extent to which you taught the Citizenship miniunit, "Let's Get into an Argument?" I didn't teach it at all I taught a small part of it I taught much or all of it 0 Citizenship mini-unit If you answered "not at all" or "small part", please explain why you didn't teach more of the TE. We are very interested in knowing if your participation in the MSP Pathways Project Professional Development influenced your teaching beyond implementation of the Teaching Experiments. 5. Please describe new topics, concepts or content, if any, that you taught this past school year based on your participation in the MSP Pathways Project. 6. Please describe any new teaching techniques, including particular learning progression-based teaching strategies, that you used based on your participation in the **MSP Pathways Project.**

MSP Pathways Project 2013 Teacher Survey
7. Please describe any new assessment techniques that you used, if at all, based on your participation in the MSP Pathways Project.
IV. Teaching Practices
We would like to find out how you teach environmental science (including ecology, evolution, biology of whole organisms, earth science topics, etc.). Please think about the class you teach that includes the most environmental science when answering the questions in this section. This should be the same class that you listed in Part II of the survey.

1. Please indicate your level of use of each of the following teaching practices in the class in which you taught the most environmental science, using the scale:

1 = never

2 = very rarely or only a little

3 = somewhat or occasionally – two or three times a month

4 = frequently – almost every week, a very important practice

5 = essential practice, used very frequently - almost every day or two

	1 - never	2 - rare	3 - some	4 - frequent	5 - essential
a) When preparing to teach a topic or unit, I try to identify a few big ideas based on my own understanding of the subject.	0	O	O	0	О
b) When teaching a topic or unit, I focus on basic principles, theories and/or ways of thinking rather than on vocabulary or facts.	O	O	0	0	O
c) I plan my instruction based on what I expect my students already know and where they are in a path towards more sophisticated understanding of the topic.	0	O	0	О	О
d) I use assessments of my students at the beginning and/or during my units to guide my selection of instructional strategies and sequences.	O	O	0	0	0
e) I provide opportunities for my students to think aloud about key ideas in a unit and then respond right away.	O	O	С	C	0
f) I provide opportunities for my students to think aloud about key ideas in a unit and then respond through subsequent instruction.	0	0	0	O	O
g) I use homework and/or quizzes to gauge student understanding and then adjust my teaching accordingly.	O	O	0	0	O
h) I provide my students with opportunities to ask their own questions and then investigate them through first hand inquiry.	O	O	0	0	0
i) I provide my students with opportunities to learn with authentic phenomena outside - in the schoolyard, neighborhood or in the field.	О	О	С	С	0
j) I provide my students with opportunities to learn with authentic phenomena in the lab (inside).	O	O	O	O	0
k) I link environmental science to real world problems.	0	0	O	O	O
I) I link environmental science to students' culture and place.	0	0	0	O	0
m) I engage students in articulating and defending claims using	0	0	0	0	O

vidence-based reasoning.					
I engage students in using scientific explanations and evidence to ake predictions about impacts of human actions on environmental estems.	O	O	O	O	0
I engage students in evaluating credibility of non-scientific guments made about environmental issues in the media and online.	0	0	0	0	O
I engage students in evaluating credibility of scientific arguments sing criteria of the scientific community (e.g., replication, peer review, experimental design, etc.).	0	O	O	O	O
I engage students in distinguishing between questions that can be ddressed by science and those that cannot.	O	0	C	O	O
I engage students in supporting their scientific arguments using uantitative reasoning.	О	0	О	О	О

- 2. To what extent has the MSP Pathways Project INFLUENCED your use of the teaching practices described in each statement in the class you named and most recently taught? Please use this scale:
- 1 not at all
- 2 somewhat
- 3 moderately
- 4 a great deal

	1 - not at all	2 - somewhat	3 - moderately	4 - a great deal
a) When preparing to teach a topic or unit, I try to identify a few big ideas based on my own understanding of the subject.	0	0	0	O
b) When teaching a topic or unit, I focus on basic principles, theories and/or ways of thinking rather than on vocabulary or facts.	O	0	0	0
c) I plan my instruction based on what I expect my students already know and where they are in a path towards more sophisticated understanding of the topic.	0	О	O	O
d) I use assessments of my students at the beginning and/or during my units to guide my selection of instructional strategies and sequences.	O	O	O	O
e) I provide opportunities for my students to think aloud about key ideas in a unit and then respond right away.	O	С	С	О
f) I provide opportunities for my students to think aloud about key ideas in a unit and then respond through subsequent instruction.	0	0	0	0
g) I use homework and/or quizzes to gauge student understanding and then adjust my teaching accordingly.	0	0	0	O
h) I provide my students with opportunities to ask their own questions and then investigate them through first hand inquiry.	O	0	0	0
i) I provide my students with opportunities to learn with authentic phenomena outside - in the schoolyard, neighborhood or in the field.	0	0	0	O
j) I provide my students with opportunities to learn with authentic phenomena in the lab (inside).	C	O	O	О
k) I link environmental science to real world problems.	0	O	O	O
I) I link environmental science to students' culture and place.	O	0	0	0
m) I engage students in articulating and defending claims using evidence-based reasoning.	0	O	O	O

n) I engage students in using scientific explanations and evidence to make predictions about impacts of human actions on environmental systems. o) I engage students in evaluating credibility of non-scientific arguments made about environmental issues in the media and online. p) I engage students in evaluating credibility of scientific arguments using criteria of the scientific community (e.g., replication, peer review, experimental design, etc.). q) I engage students in distinguishing between questions that can be addressed by science and those that cannot. r) I engage students in supporting their scientific arguments using quantitative reasoning. 3. Please describe how specific aspects of the MSP Pathways Project - summer and school year workshops, in-school support, curriculum materials, supplies - have positive influenced, if at all, your use of these practices. 4. If you had to convince your principal to support your continued involvement in the MS Pathways Project using evidence of student learning or your growth as a teacher, what would you include in your argument? Please be specific. V. Constraints and Supports For Environmental Science Teaching In this section we ask about factors that limit and support your use of the following instructional practices your teaching of environmental science. In particular, we are interested in your experiences as you have worked to implement these instructional practices: a) pre-assessing students' prior learning about key ideas in the subject b) focusing instruction on a few key ideas, principles or thinking skills c) teaching about environmental science through hands-on and outdoor experiences d) linking environmental science to real problems in the local, nearby environment.	SP Pathways Project 2013 Teacher Su	rvev			
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	4. If you had to convince your principal to suppor Pathways Project using evidence of student learn would you include in your argument? Please be substituted in this section we ask about factors that limit and support your teaching of environmental science. In particular, we worked to implement these instructional practices: a) pre-assessing students' prior learning about key ideas in the b) focusing instruction on a few key ideas, principles or thinking	pecific. ntal Scient your use of the are interested subject skills	r growth a	ching	er, what

1. For these instructional practices, please rate each of the factors below using the scale:

- 1 = Limits or Constrains
- 2 = No Impact
- 3 = Promotes or Supports
- N/A = Not Applicable

a) the availability of organisms and habitats to study at or near my school			3 - Supports	N/A
a) the availability of organisms and habitats to study at of flear my school	O	0	О	0
b) the availability of funds to take students on field trips or to buy supplies and equipment	O	0	0	O
c) support from school administrators, principals, department chairs, and other teachers	s O	O	О	0
d) the curriculum and/or state standards I am required to teach by my district	O	O	0	0
e) my environmental science knowledge	0	0	О	0
f) my personal commitment to the environment	0	0	0	0
g) my understanding of student thinking or learning in environmental science	O	0	O	0
h) my ability to teach with hands-on and outdoor approaches	0	0	0	0
i) adequate time for preparation and planning	0	0	0	0
j) adequate time for using the practices listed (pre-assessing students, focusing on key ideas, hands-on and outdoor teaching, linking to real problems)	O	0	O	O
k) my ability to differentiate instruction in response to my assessment of students' thinking or learning	O	0	0	0
I) my motivation to teach the subject using the four practices (pre-assessing students, focusing on key ideas, hands-on and outdoor teaching, linking to real problems)	0	0	0	0
m) my confidence that students will learn and succeed if taught using the four practices (pre-assessing students, focusing on key ideas, hands-on and outdoor teaching, linking to real problems)	O	O	0	О
n) the training I have received from professional development experiences within the MSP Pathways Project	O	0	0	0
o) the training I received in college and the practical wisdom and skills from my	O	0	0	0

VI. Supporting Information In this section we ask you to describe the class or classes in which you teach the most environmental science. Plea give your best estimate for each item. 1. Please provide the following estimates about the class in which you teach the most environmental science as part of the Pathways Project. This should be the same class as your referred to in answering the questions earlier in this survey. If you taught one or more of the Teaching Experiments in a different class, please go to the next question to tell us about that class, too. Name of class Number of students enrolled in class Average daily attendence (%) % Females/males Race/ethnicity composition (%s) % English language learners % free or reduced lunch % designated as special education 2. OPTIONAL: Please provide the following estimates about the other class in which you taught one or more of the Teaching Experiments. Name of class Number of students enrolled in class	ļ.
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% Females/males	
Race/ethnicity composition (%'s)	
% English language learners	
% free or reduced lunch	
% designated as gifted	
% designated as gifted % designated as special education	

THANK YOU!

THANK YOU for completing the survey. We really appreciate your help. If you have any questions, please do not hesitate to contact your site's MSP Pathways Project Professional Development leaders or providers.

KBS (Michigan): Sara Syswerda, parrsar1@msu.edu, 616-322-3632

BES (Maryland and New York): Bess Caplan, caplanb@caryinstitute.org, 410-448-5663 ext. 125

SBC (Santa Barbara): Michele Johnson, mjohnson@msi.ucsb.edu, 805-893-3163

SGS (Colorado): Amanda Morrison, Amanda.J.Morrison@ColoState.EDU, 970-491-3552

Wyoming: Sylvia Parker, sparker@uwyo.edu, 307-766-6671