#### NIST Summer Institute: Post-survey for Non-participants [insert school year]

Please take the time to complete this survey on your experience as a teacher during the current school year. Your feedback is truly valuable to the administrators of the NIST Summer Institute program and the data will be kept strictly confidential. Data will be used solely for the overall evaluation of the program and program improvement purposes.

The survey should take 20 minutes to complete.

If you have any questions, please contact **Susan Heller-Zeisler** at NIST. She can be reached by phone at (301) 975-3111 or by email at szeisler@nist.gov.

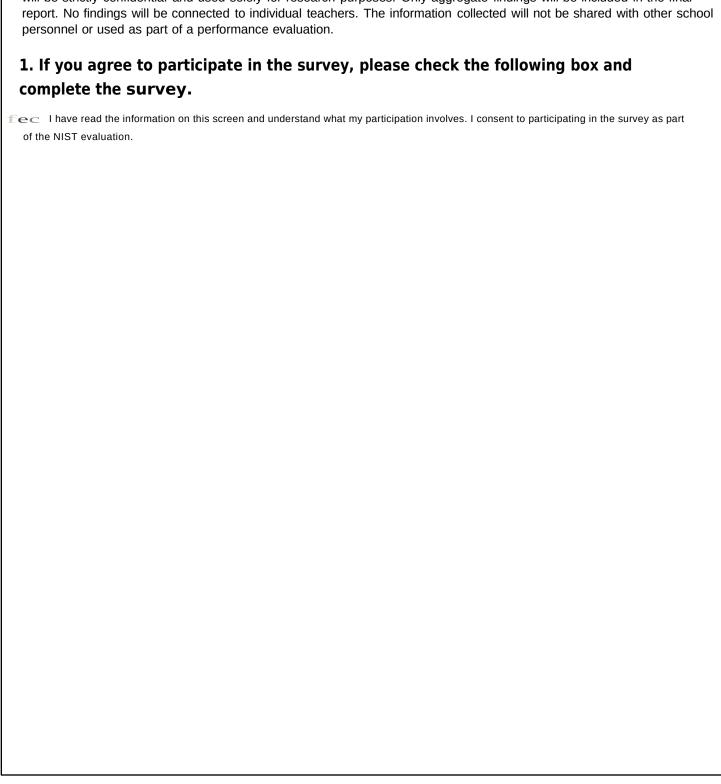
OMB Control No. 06930033 Expiration Date: 03/31/2016

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#### **Teacher Consent Form**

As part of the evaluation of the NIST Summer Institute, NIST is conducting this survey to document the teaching practices and beliefs of program applicants.

Participation in this activity is voluntary, but the information gained from the survey will be of great value to NIST as it refines its program to best meet the needs of middle school science teachers. Information collected through the survey will be strictly confidential and used solely for research purposes. Only aggregate findings will be included in the final report. No findings will be connected to individual teachers. The information collected will not be shared with other school personnel or used as part of a performance evaluation.



2. Please enter you			y (your ID numbe	er can be found	in
the email with the I	ink to this survey	).			
ID Number:					
id Number:					

	3. In what grade did you spend the majority of your time teaching science during the current school year? (Select one.)
m	1 6th grade
m	1 7th grade
m	1 8th grade
	4. If you taught science to more than one grade during the current school year, select all additional grades that apply.
f	GeC 6th grade
1	Tth grade
ſ	8th grade
f	ec I did not teach science to any additional grades

### 5. Which subject areas did you cover in your science classes during the current school year? (Mark one response on each line.)

	Subject covered	Subject not covered
a. Biology		
b. Earth Science	m	m
c. Space Science	n	n
d. Physics	m	m
e. Chemistry	n	n
f. Weather	m	m
g. Metrology*	n	n

<sup>\*</sup>Metrology: is the science of measurement, embracing both experimental and theoretical determinations at any level of uncertainty in any field of science and technology. Scientific or fundamental metrology concerns the establishment of quantity systems, unit systems, units of measurement, the development of new measurement methods, realization of measurement standards and the transfer of traceability from these standards to users in society. Applied or industrial metrology concerns the application of measurement science to manufacturing and other processes and their use in society, ensuring the suitability of measurement instruments, their calibration and quality control of measurements. Legal metrology concerns regulatory requirements of measurements and measuring instruments for the protection of health, public safety, the environment, enabling taxation, protection of consumers and fair trade.

### 6. How prepared are you to link scientific concepts to realworld applications for each of the subject areas listed below. (Mark one response on each line.)

	Not prepared	Somewhat prepared	Moderately prepared	Very well prepared
a. Biology	nm <b>l</b> kj			
b. Earth Science	m <b>l</b> j	m -	m -	m
c. Space Science	nm <b>l</b> kj	n	n	n
d. Physics	m <b>l</b> j	m	m	m
e. Chemistry	nm <b>l</b> kj	n	n	n
f. Weather	m <b>l</b> j	m	m	m
g. Metrology*	nm <b>l</b> kj	n	n	n

\*Metrology: is the science of measurement, embracing both experimental and theoretical determinations at any level of uncertainty in any field of science and technology. Scientific or fundamental metrology concerns the establishment of quantity systems, unit systems, units of measurement, the development of new measurement methods, realization of measurement standards and the transfer of traceability from these standards to users in society. Applied or industrial metrology concerns the application of measurement science to manufacturing and other processes and their use in society, ensuring the suitability of measurement instruments, their calibration and quality control of measurements. Legal metrology concerns regulatory requirements of measurements and measuring instruments for the protection of health, public safety, the environment, enabling taxation, protection of consumers and fair trade.

## 7. How important are each of the following teaching practices to you as a science teacher.

(Mark one response on each line.)

			Not Important	Somewhat Important	Moderately Important	Very Important
a. Using realworld example	s to introduce scien	ce concepts		m <b>l</b> j		m <b>l</b> j
nm <b>l</b> kj	nmlkj b.	Using realworld example	es to motivate stud	ent interest in scien	nce	m <b>l</b> j
m <b>1</b> j	mlj	m <b>l</b> j c.	. Connecting new s	science concepts to	previous scien	ce concepts
nm <b>l</b> kj	nmlkj	nm <b>l</b> kj		ım <b>l</b> kj d. Cre	ating analogies	for scientific
concepts		m <b>lj</b>	m <b>l</b> j	m <b>l</b> j		m <b>l</b> j e.
Addressing students' miscor	nceptions			nm <b>l</b> kj		nm <b>l</b> kj
nm <b>l</b> kj	ım <b>l</b> kj					
f. Having students collect da	ata		m <b>l</b> j	m	Lj	m <b>l</b> j
g. Providing direct instruction	on to help students u	nderstand a scientific	nm <b>1</b> k	j nm <b>l</b> kj		j
concept				m <b>1</b> j	İ	
<ul> <li>h. Asking students to compa</li> <li>original predictions</li> </ul>	are the results of an e	experiment to their	m <b>l</b> j	m <b>1</b> .j	m <b>lj</b>	m <b>1</b> j
i. Asking students to explai	n their conclusions a	and/or reasoning		m <b>l</b> j		m <b>l</b> j
m <b>l</b> j	m <b>l</b> j j.ln	creasing student interest	in science careers			m <b>l</b> j
m <b>l</b> j	mlj	m <b>lj</b> k. l	Increasing student	interest in the role	of science in e	veryday life
m <b>l</b> j	m <b>1</b> j	m <b>l</b> j	m <b>1</b>	j		

# 8. What is your level of preparedness to use the following teaching practices in your classroom. (Mark one response on each line.)

			Not prepared	Somewhat prepared	Moderately prepared	Very well prepared
a. Using realworld exampl	es to introduce scien	ce concepts		nm <b>l</b> kj		ım <b>l</b> kj
m <b>l</b> j	m <b>l j</b> b.	Using realworld example	es to motivate stude	ent interest in scier	nce	m <b>1</b> j
m <b>l</b> j	m <b>1</b> j	m <b>lj</b> c.	Connecting new s	cience concepts to	previous scienc	e concepts
ml j	m <b>l</b> j	m <b>l</b> j		mlj d. Cre	ating analogies fo	or scientific
concepts		m <b>1</b> .j	m <b>lj</b>	m <b>1</b> j		m <b>lj</b> e.
Addressing students' misco	onceptions			m <b>1</b> j		m <b>1</b> j
nm <b>1</b> kj	nm <b>l</b> kj					
f. Having students collect of mal_j	data		mlj	m	Lj	mlj
g. Providing direct instruct concept	on to help students u	nderstand a scientific	m <b>1</b>	j m <b>l</b> .j nm <b>l</b> kj		j
h. Asking students to comporiginal predictions	are the results of an e	experiment to their	m <b>l</b> j	m <b>lj</b>	m <b>l</b> j	m <b>l</b> j
i. Asking students to expla	ain their conclusions a	and/or reasoning		m <b>l</b> j		m <b>1</b> j
m <b>l</b> j	m <b>l j</b> j.lr	creasing student interest	in science careers			m <b>1</b> j
m <b>l</b> j	m <b>lj</b>	m <b>lj</b> k. l	ncreasing student i	interest in the role	of science in ev	veryday life
m <b>l</b> j	m <b>l</b> j	m <b>l</b> j	m <b>1</b>	j		

# 9. Approximately how often did you have <u>students</u> engage in the following learning activities during the current school year? (Mark one response on each line.)

	Weekly	Monthly	Annually	Never
a. Conduct investigations (e.g., doing lab activities or using manipulatives)				
b. Consider a realworld problem relevant to the course and develop a plan to address it	m 1	m <b>1</b>	m <b>1</b>	m <b>1</b>
c. Use technical passages (from news or science journals) to investigate current issues or new developments in science or technology	m	m T	m	m
d. Listen to guest speakers	m	m	m	m <del>-</del>
e. Go on field trips relevant to the curriculum				
f. Investigate possible career opportunities in mathematics, science, or technology	m	m	m	m -
g. Design and implement their own scientific investigation				
h. Use "stateoftheart" equipment or technologies	m	m	m	m

# 10. Consider only science teachers <u>within</u> your school: How often did you do the following with them during the current school year? (Mark one response on each line.)

	12 times a week	12 times a month	12 times a year	Never
a. Discuss general ideas for how to teach specific science concepts	m <b>1</b> j m <b>1</b> j	m <b>1</b>	j ml	j
b. Share a specific science lesson that was very effective for teaching a concept	m <b>l</b> j	m <b>l</b> j m <b>l</b> j	m <b>l</b> j	
c. Share strategies for making science accessible to all students	m <b>l</b> j m <b>l</b> j	m <b>1</b>	j ml	j
d. Have my classroom observed by other science teachers to demonstrate how to teach a specific science lesson, activity, or concept	mlj	m <b>l</b> j m <b>l</b> j	m <b>lj</b>	
e. Demonstrate a specific science lesson, activity, or concept for students in another teacher's classroom	m <b>1</b> j	m <b>1</b> m <b>1</b>	j mlj	j

# 11. Consider only science teachers <u>outside</u> your school: How often did you do the following with them during the current school year? (Mark one response on each line.)

	12 times a week	12 times a	12 times a year	Never
a. Discuss general ideas for how to teach specific science concepts	m <b>l</b> j m <b>l</b> j	m <b>1</b> j	j m <b>1</b> j	
b. Share a specific science lesson that was very effective for teaching a concept	m <b>l</b> j	m <b>l</b> j m <b>l</b> j	m <b>l</b> j	
c. Share strategies for making science accessible to all students	m <b>1</b> j m <b>1</b> j	m <b>l</b>	j m <b>1</b> j	
d. Have my classroom observed by other science teachers to demonstrate how to teach a specific science lesson, activity, or concept	m <b>lj</b>	m <b>l</b> j	m <b>lj</b>	
e. Demonstrate a specific science lesson, activity, or concept for students in another teacher's classroom $$		m <b>l</b> j	m <b>l</b> j	
		m <b>1</b> _	j m <b>1</b> j	
		m <b>1</b> ,	j	

## 12. When you had a <u>science-content question</u> related to your teaching responsibilities

during the current school year, how often did you use the following information sources to obtain answers? (Mark one response on each line.)

a. A teaching colleague within my middle school. b. A teaching colleague at another middle school. c. A science supervisor from within my school.	nool	m <b>l</b> .j	12 times a year Never  L j ml j  mlj mlj
o. A teaching colleague at another middle sch	nool	m <b>l</b> .j	
			j m <b>l</b> j m <b>l</b> j
c. A science supervisor from within my school of	listrict		
	institut .	m <b>l j</b> ml	lj mlj
I. Someone from a professional science teach NSTA)	ing organization (e.g.,		j m <b>l</b> j m <b>l</b> j
e. A professional scientist of my acquaintance	e (e.g., a former professor)	nm <b>l</b> kj	nm <b>l</b> kj
ml j ml j f.	My school district's science we	ebsite	m <b>l</b> j
n <b>1</b> .j	m <b>l</b> j	m <b>l</b> j	g. My state's science website
m <b>l</b> j ml j	m <b>1</b> j	m <b>1</b>	j h. A targeted Google search
m <b>l</b> j m <b>l</b> j	m <b>l</b> j m <b>l</b> j	i. A federal agency websit	e (e.g., NSF, NASA, NOAA, NIST)
m <b>1</b> j m <b>1</b> j	m <b>1</b> j	m <b>ıl</b> j j. Sp	ecific science websites (e.g., Why
Files, Exploratorium)	m <b>1</b> j m1	j m <b>1</b> .j	mlj k. Other
_ml_j	m <b>l</b> .j		

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# 14. Indicate the extent to which you agree or disagree with each of the following statements for the current school year. (Mark one response on each line.)

					Strongly Disagree	Disagree	Ag	ree	Strongly Agree
a. The quality of my	teaching influences my	students' interest in scie	ence			m <b>1</b> kj			n <b>l</b> kj
m <b>l</b> j	m <b>l</b> j b. The	quality of my teaching i	nfluences my	stude	nts' achiever	nent in scier	nce		m <b>lj</b>
m <b>l</b> j	m <b>l</b> j		m <b>l</b> j	c. I	continually	find better	ways to	teach	science
m <b>1</b> j	m <b>1 j</b>	m <b>l</b> j	m <b>1</b>	j					
d. I know how to motiv	ate my students to learr	science			m <b>1</b> j		n <b>1</b> j		m <b>l</b> j
e. I influence the qual classroom	ity of science instruction	for students outside of r	my own		m <b>1</b>	j		n	n <b>1</b> j
f. I am currently in a p sciencerelated careers		number of my students th	nat know abou	ut	nm <b>l</b> k	j		1kj	m <b>l</b> j
g. I am currently in a subjects interesting.	position to influence the	number of my students	that find STEI	М	m <b>l</b> j	n	ı <b>l</b> j		m <b>l</b> j
h. I am currently in a pas being relevant to the		number of my students t	hat view scier	nce	m <b>1</b>	j		n	n <b>l</b> j
					m <b>1</b>	j	m	1 ј	m <b>lj</b>
					m <b>l</b> j	m	ı1j		m <b>1</b> j

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If you are not finished with the survey, select the "Previous" button to navigate the survey and complete your responses.	
If you are ready to submit your survey now, select the "Done" button. After you submit, you will NOT be able to reenter the survey.	