## PARTICIPANT INFORMATION SHEET

"Entry"

Last f	four digits of your so	ocia]	l se	curi	ty 1	nur	nb	er	
Toda	y's date				_				
1.	Which best describ Rural Urban, but not inner of Urban, inner city Suburban		he	loca	ntio	n o	of y	our	r school? (Circle one.)
2.	This school is ( <i>Circ</i> Public		ıe): ivat	e					
3.	What grade level(s	s) do	y y c	ou c	urr	ent	ly	tea	ch (Circle all that apply.)
	Elementary School	K	1	2	3	4	5	6	j.
	Middle School	6	7	8	9				
	Junior High School	7	8	9					
	High School	9	10	11	12				
4.	What is the approximative American Asian or Pacific Island Hispanic (regardless of African American White (not of Hispanic	ler f rac	e)		c co	- - -		_% _% _% _%	on of your school?
5.	What is the approxi	mat	e sc						omposition of your school?
	At or below the pover Low income Middle income Upper-middle income High income	-	evel			_ _ _		_% _% _%	
				TC	OTA	L	100	%	
6.	What is the total n	uml	oer	of s	tud	len	ts y	70u	ı teach per day?
7.	students								How often do students in your
									11011 Official do staucitio ili your

## classes participate in each of the following during science instruction? $(Circle\ one\ on\ each\ line.)$

har	dlv	Almost every	Once or twice	Once or twice	Once or twice a	Never or
Har	uiy	<u>day</u>	<u>a week</u>	a month	semester	<u>ever</u>
a.		work in	n groups 5	1	2	3
b.			n long-term 4	projects 5	1	2
C.			and take not 5		2	3
d.		write a 4	report/pap	per 1	2	3
e.		write in	n journals o	r logs 1	2	3
f.		collect	and interpro	et data 5	1	2
g.			rocedures to gation or so 4	do an lve a problem 5	n 1	2
h.		review 3	homework 4	in class	1	2
i.			in out-of-cl ling fieldtrip 5	ass activities os) 1	2	3
j.		_	ete workshe n questions i 4	ets or answer n class 5	1	2
k.		give or of their 4		r presentation 1	as 2	3
1.			experiment problems 5	s or solve 1	2	3
m.			nputer for o processing 5	ther than 1	2	3
n.			inipulatives Iculators) 5	/ equipment 1	2	3
0.		use a c	alculator (ir	ncluding grap	hing	

				calcu 5	ılators)	1		2	3	4
p.							modem	nologies s) 5	1	2
q.				use a in cla		ook to 1		gnments 2	3	4
r.				read 4	a textl	oook i 5	n class	1	2	3
S.							- mather ed news		1	2
t.				as pr		-solvi	ing skil ng and		2	3
8. Below are five pair continuum in appr circle a position on the place your approach between).	oach he lin	es to e bet	teac weer	hing. h the	Afte stater	r rea nents	ding a	pair of s ating wh	tatements ere you w	5
Pair #1 A. My primary goal is to help students learn terms and formulas and to master science/mathematics/mathematics/technology skills.	1	2	3	4	5	6	7	to help s a deeper of key so technolo	rimary goa tudents acl understan cience/ gy concepte d principle	nieve Iding
Pair #2 A. In my science/mathematics mathematics technology course, I aim for <i>in-depth</i> study of selected topics and issues even if it means sacrificing coverage.		2	3	4	5	6	7	technolo	escience/ egy course, rehensive e even if it acrificing a study.	I aim
Pair #3 A. My students generally learn basic scientific terms and formulas before learning underlying concepts and								learn batterms ar while lea	udents gen sic scientifi id formulas rning unde ncepts and	c s

A. In my science/ mathematics/technology class, laboratory investigations and problem problem solving are used to confirm introduce previously-learned concepts.  1	principies.	1	2	3	4	5	6	7	principies.	
introduce previously-learned concepts.  1 2 3 4 5 6 7  Pair #5  A. I primarily assess my students' learning based on on their ability to apply their knowledge to new situations.  1 2 3 4 5 6 7  B. I primarily assess my students' learning based on on their ability to answer questions about specific content and processes.  1 2 3 4 5 6 7  9. The following is a list of objectives that teachers often state as being important in teaching science/mathematics/technology. Please rank the five (5) you feel are most important by putting a '1' next to the one you consider most important, a '2' next to the one you feel is next most important, and so on down to '5.'  (Rank order the top five most important)  mathematics/technology  learning  a. increase students' interest in science/mathematics/ technology  d. increase students for further study in science/ technology  d. increase students' knowledge of important technology facts  e. increase students' awareness and importance of technology in their daily lives  f. increase students' awareness of careers in technology  g. integrate teaching and learning of science/	A. In my science/ mathematics/technology class, laboratory investigations and problem problem								mathematics/technology class, laboratory investigations and	
Pair #5 A. I primarily assess my students' learning based on on their ability to apply their knowledge to new situations.  1	_								solving are used to	
A. I primarily assess my students' learning based on on their ability to apply their knowledge to new situations.  1 2 3 4 5 6 7  9. The following is a list of objectives that teachers often state as being important in teaching science/mathematics/ technology. Please rank the five (5) you feel are most important by putting a '1' next to the one you consider most important, a '2' next to the one you feel is next most important, and so on down to '5.'  (Rank order the top five most important)  a. increase students' interest in science/mathematics/ technology  b. develop/increase a positive attitude about technology  a. increase students' knowledge of important technology  d. increase students' knowledge of important technology facts  science/mathematics/  e. increase students' awareness and importance of technology in their daily lives  f. increase students' awareness of careers in technology  g. integrate teaching and learning of science/	previously-learned concepts.	1	2	3	4	5	6	7	and explore concepts.	
9. The following is a list of objectives that teachers often state as being important in teaching science/mathematics/technology. Please rank the five (5) you feel are most important by putting a '1' next to the one you consider most important, a '2' next to the one you feel is next most important, and so on down to '5.'  (Rank order the top five most important)  a. increase students' interest in science/ mathematics/technology  b. develop/increase a positive attitude about  learning  c. prepare students for further study in science/ technology  d. increase students' knowledge of important technology facts  e. increase students' awareness and importance of technology in their daily lives  f. increase students' awareness of careers in technology  g. integrate teaching and learning of science/	A. I primarily assess my students' learning based on on their ability to apply their							students' learning based their ability to answer questions about specific		
important in teaching science/mathematics/technology. Please rank the five (5) you feel are most important by putting a '1' next to the one you consider most important, a '2' next to the one you feel is next most important, and so on down to '5.'  (Rank order the top five most important)  a. increase students' interest in science/ mathematics/technology  b. develop/increase a positive attitude about learning  c. prepare students for further study in science/ technology  d. increase students' knowledge of important technology facts  e. increase students' awareness and importance of technology in their daily lives  f. increase students' awareness of careers in technology  g. integrate teaching and learning of science/		1	2	3	4	5	6	7	content and processes.	
mathematics/technology  a. increase students' interest in science/ mathematics/technology  b. develop/increase a positive attitude about  c. prepare students for further study in science/ technology  d. increase students' knowledge of important technology facts  e. increase students' awareness and importance of science/mathematics/  technology in their daily lives  f. increase students' awareness of careers in technology  g. integrate teaching and learning of science/	important in teach (5) you feel are mo <i>most</i> important, a on down to '5.'	ing s st im	cienc port	e/m ant b	athei y pu	matic atting	s/tec a '1'	hnolo next t	gy. Please rank the five of the one you consider	
mathematics/technology  b. develop/increase a positive attitude about  c. prepare students for further study in science/ mathematics/  technology  d. increase students' knowledge of important  science/mathematics/  technology facts  e. increase students' awareness and importance of  science/mathematics/  f. increase students' awareness of careers in  science/mathematics/  g. integrate teaching and learning of science/										
c. prepare students for further study in science/   mathematics/	mathematics/technology				a. iı	a. increase students' interest in science/				
mathematics/ technology  d. increase students' knowledge of important technology facts  e. increase students' awareness and importance of science/mathematics/ technology in their daily lives  f. increase students' awareness of careers in science/mathematics/ technology g. integrate teaching and learning of science/	learning				b. d	levelo <sub>l</sub>	o/inci	ease a	positive attitude about	
technology  d. increase students' knowledge of important  science/mathematics/  technology facts  e. increase students' awareness and importance of  science/mathematics/  technology in their daily lives  f. increase students' awareness of careers in  science/mathematics/  technology  g. integrate teaching and learning of science/	mathematics/				c. prepare students for further study in science/					
science/mathematics/ technology facts  e. increase students' awareness and importance of science/mathematics/ technology in their daily lives  f. increase students' awareness of careers in science/mathematics/ technology  g. integrate teaching and learning of science/	,				tecl	nnolog	у			
e. increase students' awareness and importance of technology in their daily lives  f. increase students' awareness of careers in technology  g. integrate teaching and learning of science/	science/mathematics/				d. i	ncreas	e stud	lents' kı	nowledge of important	
science/mathematics/ technology in their daily lives  f. increase students' awareness of careers in science/mathematics/ technology  g. integrate teaching and learning of science/					tecl	nnolog	y facts	5		
technology in their daily lives  f. increase students' awareness of careers in science/mathematics/  technology  g. integrate teaching and learning of science/	scionco/mathematics/			e. iı	ncrease	e stud	ents' av	wareness and importance of		
science/mathematics/ technology  g. integrate teaching and learning of science/	secrecy matteriates,				tecl	nnolog	y in t	heir da	ily lives	
technology  g. integrate teaching and learning of science/					f. ir	ncrease	stud	ents' av	vareness of careers in	
	science/ matnematics/				tecl	nnolog	y			
	mathematics/technology			g. integrate teaching and learning of science/						

principles.

principles.

echnology techniques	h. develop students' skill in science/mathematics/
enhology techniques	and processes
nquiry skills	i. develop students' skill in problem-solving and
	j. develop students' understanding of science/
nathematics/technology	principles
cooperatively/collaboratively)	k. develop students' skills in working together
	l. other important goal (please specify )
cooperatively/collaboratively)	1 0

10. Indicate the degree to which you agree or disagree with each of the following statements.

a.	0,	Strongly <u>Disagree</u>	
u.	level of science/mathematics/ technology knowledge 1 4	2	3
b.	I feel comfortable teaching science/mathematics/ technology 1 2	3	4
C.	I feel comfortable managing a class of students who are doing hands-on activities 1 2	3	4
d.	I feel comfortable demonstrating science,mathematics/technology principles to my students 3 4	1	2
e.	I feel confident in my ability to discuss science/mathematics/technology applications with my students 1	2	3
f.	I feel confident in my ability to help my students answer their own questions 1 2	3	4
g.	I feel confident in my ability to		

n. What other teachers with classes like this are doing 1

2 3

11. Put a check in front of those elements that are applicable in your school in relation to science/mathematics/technology. For those that are applicable, please indicate the extent of influence each has on your teaching.

piease mai	icate the extent of fillinerice each has on your teaching.	
(Charle if annlinghlain	(Circle one on each line.)	
(Check if applicable in	your school) Extensive Some Littl No	e
	<u>Influence</u> I <u>nfluence</u> <u>Influence</u> <u>Influence</u>	<u>ice</u>
4	a. State curriculum guide or framework 1 2	3
4	b. District curriculum guide or framework 1 2	3
3	c. National standards (e.g., Benchmarks, NCTM standards) 1 4	2
3	d. Local improvement effort (such as science, mathematics, 1	2
4	and/or technology reform) e. State-mandated test 1 2	3
4	f. District- or department- mandated test 1 2	3
	g. Textbook program (commercially- developed) 1 2 3	4
2	h. Self-developed curriculum or course 3 4	1
4	i. Laboratory facilities, equipment, and supplies 1 2	3
3	j. Availability of computers 1	2
3	k. Parentałcommunity involvement 1	2
	l. My own science content background	1
2	3 4 m. My own interests and experience	1
2	3 4	

12. How much does your school provide each of the following types of support for teaching your science/mathematics/technology class?

			(Circie	one on enen	
	<u>Ve</u>	r <u>y Much</u>	Somewhat	A Little	Not at Al
a.	resources to implement what I learn through professional devlopment activities	es 1	2	3	4
b.	encouragement to implement what I lear through professional development activit		2	3	4
c.		time to implement 3	o develop ma ment what I l 4	nterials in o learn throu	gh 12
d.	flexibility to choose topics of	_	sional develo n 1	pment acti 2	vities 3 4
e.			es I teach budget to ob	otain mater	rials 12
13.	Indicate the highest level of education y degree (e.g., B.S., B.A., M.S., M.A., M.Ed.	ou have	earned an		e the
	Degree				
14.	How many credits do you have beyond they are semester credits, quarter credits, or		_		whether
	Credits (semester hours) Credits	(quarter	hours)		
15.	Since the beginning of this school year, average) have you spent meeting inform planning, curriculum development, or cone.)  no time at all	nally wi	ith other te	achers on	lesson
	less than 30 minutes				
	30 minutes to 1 hour				
	1 - 5 hours				
	5 hours -10 hours				
	10 hours or more				
16.	How many inservice or other workshop years? ( <i>Circle one</i> .)	os have	you conduc	eted in the	e last five

	4-6			
	more than 6			
17.	How many presentations have in the last five years? ( <i>Circle on</i> 0		professional groups (	(e.g., NSTA)
	1-3			
	4-6			
	more than 6			
18.	How many years have you tau apply.) Science	ght the follov	ving? (Fill in the blank	for all that
	Mathematics			
	VocationalTechnology FOLLOW-UP	QUESTIC	ONNAIRE	
Toda	ny's date			
1.	What grade level(s) do you cur Elementary School K 1 2 3 Middle School 6 7 8 9 Junior High School 7 8 9 High School 9 10 11 1	4 5 6	Circle all that apply.)	
2.	To what exten statements about what has occu	, 0		0
	small	Not at	To a great To some	To a
a.	<u>extent</u> I have drawn on my program	<u>all</u>	<u>extent</u> <u>extent</u>	-
	experiences for explanations and	exam 4	ples in my teaching 1	2 3
b.			wn on my program es for ideas for student projects	1 2
		_		

	3	,	4	
c.			ve made curriculum changes ed on what I have learned	
			he program 1	2 3
		4	2 0	
d.			ve developed new materials the course(s) I teach	1 2
		3	4	1 4
e.			ve shared my experience/	
			wledge from the program with eagues informally	1 2
		3	4	- <b>-</b>
f.			ve been responsible for conducting	
		ınse	ervice or workshop activities using ideas from the program	1 2
			3 4	
g.			I have made presentations to	
			professional groups using ideas from my program experience 1	2 3
			4	
h.			I have become/remain involved in efforts to improve teaching and	
			learning (e.g., reform efforts) in my	
			school or school district 1	2 3
			1	
3.	Below are five pairs of statements.	Eac	ch pair represents opposite ends c	of a
	continuum in approaches to teachi	_	<b>~</b> 1	
	circle a position on the line between t		-	vould
	place your approach (e.g., toward between).	one	end, the other, or somewhat in	
	between).			

Pair #1								
A. My primary goal is								B. My primary goal is
to help students learn								to help students achieve
terms and formulas and to								a deeper understanding
master science/mathematics/								of key science/
mathematics/								-
technology skills.								technology concepts
								and principles.
	1	2	3	4	5	6	7	
Pair #2								

A. In my science/mathematics
mathematics
technology course, I aim
for in-depth study of
selected topics and issues
even if it means sacrificing
coverage.

B. In my science/
technology course, I aim
for comprehensive
for comprehensive
coverage even if it
means sacrificing
in-depth study.

science/mathematics/

e. increase students' awareness and importance of

	technology in their daily lives				
	f. increase students' awareness of careers in				
science/mathematics/	technology				
mathematics/technology	g. integrate teaching and learning of science/				
to also a to als	h. develop students' skill in science/mathematics/				
technology techniques	and processes				
inquiry skills	i. develop students' skill in problem-solving and				
	j. develop students' understanding of science/				
mathematics/technology	principles				
(cooperatively/collaboratively)	k. develop students' skills in working together				
	l. other important goal (please specify)				

How often do students in your classes 5. participate in each of the following during science instruction?

	(Circle <u>one</u> on each line.)				
handly	Almost every	Once or twice	Once or twice	Once or twice a	Never or
hardly	<u>day</u>	<u>a week</u>	a month	semester	_ever
a.	work i	n groups	1	2	3
	4	5			
b.	work	on long-term	n projects	1	2
	3	4	5		
C.		and take not	tes 1	2	3
	4	5			
d.		a report/pap	per 1	2	3
	4	5			
e.	write i 4	n journals o 5	r logs 1	2	3
	4	3			
f.		and interpr		1	2
	3	4	5		
g.	follow p	rocedures to	do an		

	investigation or solve a problem 3 4 5	1	2
h.	review homework in class 3 4 5	1	2
i.	engage in out-of-class activities (including fieldtrips) 1 4 5	2	3
j.	complete worksheets or answer written questions in class 3 4 5	1	2
k.	give oral reports or presentations of their work 1 4 5	2	3
1.	design experiments or solve novel problems 1 4 5	2	3
m. t	use a computer for other than word processing 1 4 5	2	3
n.	use manipulatives / equipment (not calculators) 1 4 5	2	3
0.	use computer-based technologies (e.g., CD-ROM, modems) 3 4 5	1	2
p.	use a textbook to do assignments in class 1 2 5	3	4
q.	read a textbook in class 1 4 5	2	3
r.	discuss a science- mathematics- technology-related news event 3 4 5	1	2
S.	use critical thinking skills such as problem-solving and/or decision-making 1 4 5	2	3

6. Indicate the degree to which you agree or disagree with each of the following statements.

(Circle <u>on</u>e on each line.)

Strongly			Strongly
<u>Agree</u>	<u>Agree</u>	<u>Disagree</u>	<u>Disagree</u>

a.	I am comfortable with my current level of science/mathematics/ technology knowledge 1 4	2	3
b.	I feel comfortable teaching science/mathematics/technology 1 2	3	4
c.	I feel comfortable managing a class of students who are doing hands-on activities 1 2	3	4
d.	I feel comfortable demonstrating science,mathematics/technology principles to my students  3 4	1	2
e.	I feel confident in my ability to discuss science/mathematics/ technology applications with my students 1	2	3
f.	I feel confident in my ability to help my students answer their own questions 1 2	3	4
g.	I feel confident in my ability to supervise my students' research projects and experiments 3 4	1	2

7. Put a check in front of those elements that are applicable in your school in relation to science/mathematics/technology. For those that are applicable, please indicate the extent of influence each has on your teaching.

(Circle one for each that

	·		
applies.)			
(Check if applicable in your school)	Extensive Some Little	No	
	<u>Influence</u> <u>Influence</u> <u>I</u>	nfluen	<u>ice</u>
	a. State curriculum guide		
	or framework 1	2	3
4			
	b. District curriculum		
	guide or framework 1	2	3
4			
	c. National standards (e.g.,		
	Benchmarks, NCTM standards)	1	2
3	4		
	d. Local improvement effort		
	(such as science, mathematics,	1	2
3	4		
	and/or technology reform)		

4	e. State-mandated test 1 2
4	f. District- or department- mandated test 1 2
	g. Textbook program (commercially-developed) 1 2 3
	h. Self-developed curriculum or course
2	3 4
4	i. Laboratory facilities, equipment, and supplies 1 2
	j. Availability of computers 1
3	4
	k. Parentałcommunity involvement 1
3	4
	l. My own science content backgroun
2	3 4
	m. My own interests and experience
2	3 4
	n. What other teachers with classes
	like this are doing 1 2

	<u>Very</u>	Much	Somewhat	<u>A Little</u>	Not at All
a.	resources to implement what I learn				
a.	through professional devlopment activities	1	2	3	4
b.	encouragement to implement what I learn through professional development activities	s 1	2	3	4
c.		impler 3	o develop mat ment what I le	earn throug	gh 12
d.	flexibility to choose topics cov	•	sional develo <sub>l</sub> . 1	pment activ	3 4
		course	s I teach		
e.		yearly	budget to ob	tain mater	ials 12
		3	4		

9a. If you are a high school, junior high school or middle school teacher:

How many years have you taught the following? (Fill in the blank for all that

	apply.) Science				
	Mathematics				
	VocationałTechno	ology			
9b.		If you are	e an elementary so	chool teacher:	
	spend teaching s		•		n average do you you teach? ( <i>Circle</i>
		20 minutes	or less		
		20-30 minu	tes		
		30-45 minu	tes		
		45 minutes	to one hour		
		one hour or	r more		
10.	and thinking abo	out science/	your students this mathematics/tec		in ways of doing ere not evident in
SUP	PLEMENTAL QI	UESTIONS			
•	How many o blanks for ea		O	you teach ea	ach day? (Fill in
			Number of Classe	es Number of S	Students
	Science				
	Mathematics				
	Technicalvocati	ional			
	Other subject c	lass			
	(subject:			)	
• clas		lescribes t	he ability level	s of your stud	lents in your
		w many cla	asses you teach	in each categ	gory)?
	Fairly homogen	ieous and lov	w in ability		classes
	Fairly homoger	neous and av	verage in ability		classes

	Fairly homogeneous and high in ability			classe	S
	Heterogeneous, with a mixture of two or more a	bilities		classe	S
•	Please indicate below the subject areas certified to teach in your state.	and gr	ade le	evels y	ou are
	Subject(s)				
	Grade Level(s)				
•	How many years have you taught the for all that apply.)	ollowir	ng? (F	ill in t	he blank
	Science			_ years	8
	Mathematics		_ year	S	
	VocationalTechnology In what field(s) do you have a major or rgraduate level? (Circle Major or Minese no more than 1 or 2 majors and 1 to	minor	those	e	
	Mathematics	Major		Minor	
	Computer Science		Major		Minor
	Physical Science		Major		Minor
	Chemistry		Major		Minor
	Biological Sciences	Major		Minor	
	Earth/Space Sciences		Major		Minor
	Science Education		Major		Minor
	Mathematics Education		Major		Minor
	Other Education		Major		Minor

Do you have an advanced degree? If no, go to question XX.

Other (specify) \_\_\_\_\_ Major

Minor

• In what field(s) do you have a major or minor at the graduate level? (Circle Major or Minor for those that apply. Choose no

## more than 1 or 2 majors and 1 to 3 minors.)

Mathematics	Major		Minor	
Computer Science		Major		Minor
Physical Science		Major		Minor
Chemistry		Major		Minor
Biological Sciences	Major		Minor	
Earth/Space Sciences		Major		Minor
Science Education		Major		Minor
Mathematics Education		Major		Minor
Other Education		Major		Minor
Other (specify)		Major		Minor

• Indicate your expectations in regard to the program (either during the program or as a result of your participation).

		I do not expect this will occur	I am not sure this will occur	I expect this will occur
a.	interact daily with Laboratory staff	1	2	3
b.	observe scientific research in the laboratory	1	2	3
с.	participate in actual research in the laboratory	1	2	3
d.	contribute to ongoing research in the laboratory	1	2	3
e.	increase my science/mathematics/ technology content knowledge	1	2	3
f.	increase my knowledge of applications in science/mathematics/technology	1	2	3
g.	gain new perspectives on how science/mathematics/technology should best be taught	1	2	3

h.	learn about activities I can use in my classroom	1	2	3
i.	develop activities I can use in my classroom	1	2	3
j.	use computers	1	2	3
k.	work in a specialty related to courses I teach	1	2	3
1.	be able to significantly influence my assignments and activities to serve my needs	1	2	3

"Exit" QUESTIONS - To determine satisfaction with the program; administered immediately following program participation (such as after a two-week summer workshop)

Last four digits of y	our social security number				
-----------------------	----------------------------	--	--	--	--

Today's date \_\_\_\_\_

• Rate the following aspects of the program.

		<u>Excellent</u>	Very <u>Good</u>	Good	<u>Fair</u>	<u>Poor</u>
a.	Program administration	1	2	3	4	5
b.	Advance communication	1	2	3	4	5
c.	Orientation	1	2	3	4	5
d.	Availability of resources	1	2	3	4	5
e.	Assistance provided by program staff	1	2	3	4	5
f.	Workshop leaders	1	2	3	4	5
g.	Relationship with mentor	1	2	3	4	5
h.	Part of a research team	1	2	3	4	5
g.	Interactions with other teachers	1	2	3	4	5
h.	Interactions with Lab scientists	1	2	3	4	5
i.	Receiving advice and support for sharing experience	1	2	3	4	5
j.	Receiving support for extending experience to the classroom	1	2	3	4	5

List any specific strengths and weaknesses you would like the program staff to know about:

## • Give your opinion about the program with regard to each of the following statements:

	Strongly Agree	Strongly Strongly Agree Agree Disagree		Not <u>Disagree</u>	
<u>Applicable</u>					
a. The program staff made me feel welcome A	1	2	3	4	N/
b. The program staff responded effectively to my questions	1	2	3	4	N/
A					
c. The program staff was receptive to my suggestions for program improvement	1	2	3	4	N/
A The metanicle that were movided will be					
<ul><li>d. The materials that were provided will be of use in the classroom</li></ul>	1	2	3	4	N/
e. The program provided ideas for ways to					
present content to my students A	1	2	3	4	N/
f. Objectives of the program were met	1	2	3	4	N/
A					
g. My research/task had a definable output or end point					
h. My research/task was meaningful to me	1	2	3	4	N/
A					
i. The presentations during the program were well organized	1	2	3	4	N/
A					
<ul> <li>j. I had significant opportunity to influence my summer experience to meet my needs</li> <li>A</li> </ul>	1	2	3	4	N/
k. I had significant opportunity to interact					
with scientists/technicians	1	2	3	4	N/
A					
<ol> <li>I had significant opportunity to interact with other teachers</li> </ol>	1	2	3	4	N/
A					
<ul><li>m. I observed scientific research in the laboratory</li><li>A</li></ul>	1	2	3	4	N/
n. I participated in actual research in the					
laboratory A	1	2	3	4	N/
Λ					

<ul><li>o. I contributed to ongoing research in the laboratory</li><li>A</li></ul>	1	2	3	4	N/
<ul><li>p. I increased my science/mathematics/ technology content knowledge</li><li>A</li></ul>	1	2	3	4	N/
<ul><li>q. I increased my knowledge of applications in science/mathematics/technology</li><li>A</li></ul>	1	2	3	4	N/
<ul><li>r. I gained new perspectives on how science/ mathematics/technology should be taught</li><li>A</li></ul>	1	2	3	4	N/
s. I learned laboratory skills that I can teach to my students	1	2	3	4	N/
<ul><li>t. I increased my science/mathematics/ technology content knowledge</li><li>A</li></ul>	1	2	3	4	N/

• For you (personally and/or professionally) what is the most important thing you gained from your program experience? (Use the back of this sheet if you need more room.)