APPENDIX B3

GK-12 Monitoring System Crosswalk: Teacher

MONITORING SYSTEM (GK–12): TEACHER

(Data Collected Annually from Lead/NSF-Supported Teachers)

	Common			
N.	Collection	ect .	n.	Project Outputs ⁱⁱⁱ
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		rtic	Pro	
New Elements	Questions	Staff and Project Participant	Project Implementation	ojec
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	1. Contact Information			
	Some data will be pre-filled with data entered by PI			
	Name:			
	Title			
	First name	v		
	Middle name	X		
	Last name			
	Suffix			
	Address:			
	Street address 1			
	Street address 2	X		
	City			
	State			
	Zip or postal code			
	Phone:			
	Number	X		
	Extension			
	Alternate Phone:			
	Number			
X	Extension	X		
	Type: (mark one)			
	• U.S. number			
	Non-U.S. number	N		
37	School E-mail Address	X		
X	Other E-mail Address	X		
	School Name(s)	X		
L				
	2. Demographic Information			
	Ethnicity: (select one)			
	Hispanic or Latino	X		
	 Not Hispanic or Latino Not reported 			
	Horreported	X		
	 Race: (mark one or more) American Indian or Alaska Native 			
	 Asian 			

	Common			
ts	Collection	Staff and Project Participant	uo	Its
New Elements	Categories	uff and Proj Participant	ati	Ē
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		v ,	-	
	Black or African American			
	Native Hawaiian or Other Pacific Islander			
	White			
	Not reported			
	Gender:			
	• Female	X		
	• Male	21		
	Not reported			
	Disability Status: (mark one or more)			
	None			
	Hearing impairmentMobility or orthopedic impairment	X		
	 Visual impairment 			
	Not reported			
	Other (please specify)			
	3. Degrees			
	Undergraduate Degree			
	Institution:			
	U.S. Institution (Name and State)			
	OR	X		
	International Institution:			
	Name			
	Country			
	Degree: (select one)			
	• B.A.	X		
	 B.S. Other (please specify) 			
	Suiter (picase specify)			
	Discipline: (select one)			
	 Education—Early childhood Education—Elementary 			
	Education—Elementary Education—Middle			
	Education—High	v		
	Education—Other	X		
	Chemistry - Analytical			
	•see endnotes for complete list (other than Education) ^{iv}			
	STEM Education and Learning Research – Other (please specify):			
	Other (please specify):			
	Date of Completion:	X		
	Month			
	Year			
	Graduate Degree			

But Versions Collection Categories Use Versions Use Version Versio		Common			
Institution: X U.S. Institution (Name and State) OR International Institution: X Degree: (select one) X • M.A. X • Ph.D. X • Other Postbaccalaureate Degree (please specify) X Discriptine: (select one) X • Education—Early childhood X • Education—High X • Education—Other X • Education on High X • Chemistry • Analytical X • STEM Education and Learning Research – Other (please specify): X • Vear X Vear X Stable Certified to teach: (select all that apply) X • Elementary X • Education and Learning Research = Other (please specify): X • Other (please specify):	s		ect	u	ts
Institution: X U.S. Institution (Name and State) OR International Institution: X Degree: (select one) X • M.A. X • Ph.D. X • Other Postbaccalaureate Degree (please specify) X Discriptine: (select one) X • Education—Early childhood X • Education—High X • Education—Other X • Education on High X • Chemistry • Analytical X • STEM Education and Learning Research – Other (please specify): X • Vear X Vear X Stable Certified to teach: (select all that apply) X • Elementary X • Education and Learning Research = Other (please specify): X • Other (please specify):	ent		oje nt	atic	nd
Institution: X U.S. Institution (Name and State) OR International Institution: X Degree: (select one) X • M.A. X • Ph.D. X • Other Postbaccalaureate Degree (please specify) X Discriptine: (select one) X • Education—Early childhood X • Education—High X • Education—Other X • Education on High X • Chemistry • Analytical X • STEM Education and Learning Research – Other (please specify): X • Vear X Vear X Stable Certified to teach: (select all that apply) X • Elementary X • Education and Learning Research = Other (please specify): X • Other (please specify):	l II	Cuttgonts	Pr pa	nta	nt
Institution: X U.S. Institution (Name and State) OR International Institution: X Degree: (select one) X • M.A. X • Ph.D. X • Other Postbaccalaureate Degree (please specify) X Discriptine: (select one) X • Education—Early childhood X • Education—High X • Education—Other X • Education on High X • Chemistry • Analytical X • STEM Education and Learning Research – Other (please specify): X • Vear X Vear X Stable Certified to teach: (select all that apply) X • Elementary X • Education and Learning Research = Other (please specify): X • Other (please specify):	Ele		nd tici	roj	t O
Institution: X U.S. Institution (Name and State) OR International Institution: X Degree: (select one) X • M.A. X • Ph.D. X • Other Postbaccalaureate Degree (please specify) X Discriptine: (select one) X • Education—Early childhood X • Education—High X • Education—Other X • Education on High X • Chemistry • Analytical X • STEM Education and Learning Research – Other (please specify): X • Vear X Vear X Stable Certified to teach: (select all that apply) X • Elementary X • Education and Learning Research = Other (please specify): X • Other (please specify):	3		fai	P.	jec
Institution: X U.S. Institution (Name and State) OR International Institution: X Degree: (select one) X • M.A. X • Ph.D. X • Other Postbaccalaureate Degree (please specify) X Discriptine: (select one) X • Education—Early childhood X • Education—High X • Education—Other X • Education on High X • Chemistry • Analytical X • STEM Education and Learning Research – Other (please specify): X • Vear X Vear X Stable Certified to teach: (select all that apply) X • Elementary X • Education and Learning Research = Other (please specify): X • Other (please specify):	Ne N	Questions	P P	du l	roj
U.S. Institution (Name and State) OR X International Institution: Name Country X Degree: (select one) X • M.A. X • M.A. X • M.A. X • Degree: (select one) X • Discipline: (select one) X • Education-Early childhood X • Education-Elementary X • Education-High X • Education-High X • Completion: X • Other Postbaccalaureate Degree (please specify): X • Education-High X • Education-High X • Education-Other Chemistry - Analytical •see endnotes for complete list (other than Education) X • Other (please specify): X • Other (please specify): X • Date of Completion: X Month X Year X • Teaching Experience and Credentials X • Total number of years teaching (at any K-12 school) X • No, skip the following questions in this section X • N			ν.	Ē	Ъ
U.S. Institution (Name and State) OR X International Institution: Name Country X Degree: (select one) X • M.A. X • M.A. X • M.A. X • Degree: (select one) X • Discipline: (select one) X • Education-Early childhood X • Education-Elementary X • Education-High X • Education-High X • Completion: X • Other Postbaccalaureate Degree (please specify): X • Education-High X • Education-High X • Education-Other Chemistry - Analytical •see endnotes for complete list (other than Education) X • Other (please specify): X • Other (please specify): X • Date of Completion: X Month X Year X • Teaching Experience and Credentials X • Total number of years teaching (at any K-12 school) X • No, skip the following questions in this section X • N		Institution:			
OR X International Institution: Name Country Degree: (select one) M.A. M.S. Ed.D. Y Other Postbaccalaureate Degree (please specify)					
International Institution: Name Name Country Degree: (select one) X • M.A. M.A. • M.S. EdD. • EdD. X • EdD. Science-Endy childhood • Education-Elementary X • Education-High X • Education-High X • Education-High X • Education-Analytical X • Other (please specify): X • Other (please specify): X • Education and Learning Research - Other (please specify): X • Other (please specify): X			X		
Name Country Degree: (select one)					
Country Country Degree: (select one) MA. • M.A. M.S. • Ed.D. Fd.D. • Ph.D. Other Postbaccalaureate Degree (please specify)					
Degree: (select one)M.A.• M.A.M.S.• Ed.D.Fb.D.• Other Postbaccalaureate Degree (please specify)X• Other Postbaccalaureate Degree (please specify)X• Other Postbaccalaureate Degree (please specify)X• Education—Elementary• Education—High• Education—HighX• Education—OtherX• Chemistry - AnalyticalX•see endnotes for complete list (other than Education)• STEM Education and Learning Research – Other (please specify):• Other (please specify):• Date of Completion: Month Year• At Teaching Experience and CredentialsTotal number of years teaching (at any K-12 school)X• Yes, complete the following questions in this section • No, skip the following questions in this sectionGrades certified to teach: (select all that apply)• Early childhood • Elementary• Middle junior high • High school• Steince-Chemistry• Mathematics • Computer/technology• Science-Biology • Science-Chemistry• Steince-Chemistry• Steince-Chemistry• Steince-Chemistry					
• M.A. • M.S. • M.S. • Ed.D. • Ph.D. • Other Postbaccalaureate Degree (please specify) • Discipline: (select one) • Education—Early childhood • Education—Elementary • Education—Middle • Education—Middle • Education—Middle • Education—Middle • Chemistry - Analytical •see endnotes for complete list (other than Education) • STEM Education and Learning Research – Other (please specify): • Other (please specify): • Other following newsition and Learning Research – Other (please specify): • • • • • • • • • • • • • • • • • • •					
• M.S. Ed.D. X • Ed.D. • Dh.D. • Discipline: (select one) - • Education—Early childhood • Education—High - • Education—High • Education—High X • Education—Other - - • Chemistry - Analytical - - •see endnotes for complete list (other than Education) - - • STEM Education and Learning Research - Other (please specify): - - • Other (please specify): - - - • Other of Completion: X X - Month X X - - Year - - - - • Total number of years teaching (at any K-12 school) X - - X Ves, complete the following questions in this section X - - • No, skip the following questions in this section X - - - Subjects certified to teach: (select all that apply) • Early childhood - - - - • Middle/junior high • High school - - </td <td></td> <td></td> <td></td> <td></td> <td></td>					
• Ed.D. • Ph.D. • Other Postbaccalaureate Degree (please specify)			v		
• Other Postbaccalaureate Degree (please specify) Image: context of the specific sp			X		
Discipline: (select one) • Education—Early childhood • Education—Elementary • Education—Middle • Education—Other • X • Chemistry - Analytical •see endnotes for complete list (other than Education) • STEM Education and Learning Research – Other (please specify):					
 Education—Early childhood Education—Early childhood Education—Middle Education and Learning Research – Other (please specify):					
 Education—Elementary Education—High Education—Other Education—Other Education—Other Chemistry - Analytical see endnotes for complete list (other than Education) STEM Education and Learning Research – Other (please specify):					
• Education—Middle X • Education—Other X • Chemistry - Analytical see endnotes for complete list (other than Education) • STEM Education and Learning Research – Other (please specify):					
• Education—High X • Education—Other • Chemistry - Analytical •see endnotes for complete list (other than Education) • STEM Education and Learning Research – Other (please specify):					
 Education—Other Chemistry - Analytical see endnotes for complete list (other than Education) STEM Education and Learning Research – Other (please specify):					
 Chemistry - Analytical see endnotes for complete list (other than Education) STEM Education and Learning Research - Other (please specify):			X		
 see endnotes for complete list (other than Education) STEM Education and Learning Research – Other (please specify):					
• Other (please specify):		see endnotes for complete list (other than Education)			
Date of Completion: Month YearXMonth YearX4. Teaching Experience and Credentials					
Month YearXImage: Vear definition of the section					
YearImage: constraint of the second seco					
4. Teaching Experience and Credentials			X		
Total number of years teaching (at any K-12 school)XDo you have any K-12 teaching certification?XYes, complete the following questions in this sectionX• No, skip the following questions in this sectionXGrades certified to teach: (select all that apply)-• ElementaryX• Middle/junior high-• High school-Subjects certified to teach: (select all that apply)-• ElementaryX• Middle/junior high-• High school-Subjects certified to teach: (select all that apply)-• Science-Biology-• Science-Biology-• Science-Chemistry-• Science-Earth science-		Year			
Total number of years teaching (at any K-12 school)XDo you have any K-12 teaching certification?XYes, complete the following questions in this sectionX• No, skip the following questions in this sectionXGrades certified to teach: (select all that apply)-• ElementaryX• Middle/junior high-• High school-Subjects certified to teach: (select all that apply)-• ElementaryX• Middle/junior high-• High school-Subjects certified to teach: (select all that apply)-• Science-Biology-• Science-Biology-• Science-Chemistry-• Science-Earth science-					
Do you have any K-12 teaching certification? X Yes, complete the following questions in this section X Grades certified to teach: (select all that apply) Early childhood Elementary X Middle/junior high High school Subjects certified to teach: (select all that apply) X Mathematics Computer/technology General studies Science-Biology Science-Biology Science-Chemistry			v		
X • Yes, complete the following questions in this section X			Λ		
• No, skip the following questions in this section Image: certified to teach: (select all that apply) • Early childhood X • Middle/junior high X • High school X Subjects certified to teach: (select all that apply) X • Mathematics Image: computer/technology • General studies Science-Biology • Science-Chemistry Science-Chemistry	v		v		
Grades certified to teach: (select all that apply) Image: Select all that apply) Early childhood X Elementary X Middle/junior high X High school X Subjects certified to teach: (select all that apply) X Mathematics X Computer/technology Image: Select all that apply) Science-Biology Science-Chemistry Science-Chemistry Science-Chemistry Science-Earth science Image: Select all the selec	Λ		Λ		
 Early childhood Elementary Middle/junior high High school Subjects certified to teach: (select all that apply) Mathematics Computer/technology General studies Science-Biology Science-Chemistry Science-Earth science 					
• Elementary X X • Middle/junior high - - • High school - - Subjects certified to teach: (select all that apply) X - • Mathematics - - - • Omputer/technology - - - • General studies - - - • Science-Biology - - - • Science-Chemistry - - - • Science-Earth science - - -					
 Middle/junior high High school Subjects certified to teach: (select all that apply) Mathematics Computer/technology General studies Science-Biology Science-Chemistry Science-Earth science Mathematics Mat			X		
Subjects certified to teach: (select all that apply) X • Mathematics Image: Select all that apply) • Mathematics Image: Select all that apply) • Computer/technology Image: Select all that apply) • General studies Image: Select all that apply) • Science-Biology Image: Select all that apply) • Science-Chemistry Image: Science-Earth science					
 Mathematics Computer/technology General studies Science-Biology Science-Chemistry Science-Earth science 		High school			
 Computer/technology General studies Science-Biology Science-Chemistry Science-Earth science 			X		
 General studies Science-Biology Science-Chemistry Science-Earth science 					
 Science-Biology Science-Chemistry Science-Earth science 					
 Science-Chemistry Science-Earth science 					
Science-Earth science					

	Common			
New Elements	Collection Categories Questions	Staff and Project Participant	Project Implementation	Project Outputs
	 Science-General science Science-Integrated science Science-Physical science Science-Physics Other (please specify) 			
X	Did you receive your certification through an alternative certification program? (e.g., Teach for America) • Yes • No	X		
	5. Experience Working With GK-12 Fellows			
X	Graduate fellows you worked with as part of your GK-12 participation		X	
	Fellow		74	
X	Fellow Name (Select names from fellow list pre-populated with data entered by the PI)		X	
X	Subjects (check all that apply) Mathematics—Elementary Mathematics—General Mathematics—Middle school Mathematics—High school (secondary) Science—Elementary school Science—General Science—General Science—General Science—General Science—General Science—General Science—General Science—General Science—Hitgrated science Science—Chemistry Science—Chemistry Science—Physical science Science—Physical science Science—Social Computer science Other (please specify)		Х	
X	# Male students			X
Χ	# Female students			X
X	# Underrepresented minority students			X
	Activity/Lesson Written/Developed in Classroom Using Fellows as Scientific Experts			
Х	Grade level(s) for activity/lesson developed (mark all that apply) Elementary Middle school High school Other (please specify) 			x
Х	Academic Disciplines (mark all that apply) Mathematics—Algebra I			X

nts	Collection						Staff and Project Participant	Project Implementation	Project Outputs
New Elements	Categories						ff and Proj Participant	ect)utp
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								II	P P
	Mathematics—Algebra II								
	Mathematics—Eleme								
	 Mathematics—Geometry Science—General 	eury							
	Science—Integrated								
	 Science—Biology 								
	Science—Chemistry								
	Science—ComputerScience—Earth/space								
	 Science—Engineering 								
	Science—Physical sci								
	 Science—Physics Other (place specify) 								
X	• Other (please specify) Brief Description								X
Λ	Overall Experience Wor	ling w	th Follow						
X	Average hours a week wo				OWS			X	
	How many of these hours					our GK-12			
	fellows, were spent on pla							Х	
	Please check the activities of the GK-12 fellows with whom you worked (check								
	all that apply)								
	 Serving as a role mod Tranship r/mething 		lents						
	Teaching/co-teachingAdapting scientific m		the approp	riate				V	
	grade level		the upprop	intec				Х	
	Working collaborative		eachers						
	 Working with student Developing activities 	S							
	Developing activitiesServing as a scientist	in the clas	sroom						
	Using the following table, in			K-12 fellows	incorporate	d their research			
	into your classroom.		, 0		. 1. 2. 2. 6. 6				
				Integration of					
		 		(select one	rating)	In constant of the			
	Item	Not at	One	Several	Ongoing	Incorporated Into			
	110111	All	Time	Times		Curriculum			
X	*Developed module/								X
	lesson plan *Special presentation								
	*Involved teacher in								
	research								
	*Involved students in research								
	Other (please specify) □ □ □								
	6. Honors and Awards I	Ouring (GK-12 Pi	roject Parti	cipation				

	Common			
	Collection	, t	=	s
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New Elements		Staff and Project Participant	Project Implementation	Project Outputs
e	Questions	Pa		je
	Questions	ן ז``gta	<u>I</u> I	Pr
	Declare nothing to report			X
	Honor or Recognition			
	Name of honor or recognition			X
	Organization granting the award			X
	Year earned			X
				Λ
	Other Award: Fellowship, Scholarship, or Grant Other Than GK-12			
	Title of proposal			X
	Awarding agency			X
	Year awarded			Х
	7. Development Activities			
	Average hours per week spent on GK-12 activities		Х	
	Did you participate in regular training throughout the year specific to your GK-		11	
	12 project?			
	• Yes			
	Format of training (check all that apply)			
	Courses			
X	Seminars		Х	
	Workshops			
	Other (please specify)			
	• No			
	Elaborate why not			
	Did you participate in a GK-12 summer institute?			
	• Yes			
	How long did the summer institute last? (select one)			
	Less than 1 week			
	 1 week 2 weeks 			
X	• 3 weeks		Х	
	• 4 weeks			
	• More than 4 weeks			
	• Other (please specify)			
	• No			
	Elaborate why not			
X	Professional development activities associated with your GK-12 project during		Х	
	the reporting period. Because some of these activities were ongoing throughout			
	the entire reporting period and others were limited to summer institutes, indicate			
	when these professional development activities occurred. Check "Summer,"			
	"Yearlong," or both, if applicable. (check all that apply)			
	Item Summer Yearlong			
	I participated in coursework/training sessions that helped increase my			
L		I		1

New Elements	Common Collection Categories Questions	Staff and Project Participant	Project Implementation	Project Outputs		
	science content knowledge. I participated in coursework/training leading to					
	certification/recertification					
	I participated in coursework/training leading to an advanced degree.					
	I made presentations at academic/ professional conferences or meetings					
	I developed multimedia materials, Web sites, or other cyber-enabled tools for teaching/learning.					
	I participated as a team member engaged in joint research.					
	I received training in effective mentoring skills.					
	I participated with fellows in a workshop that stressed teamwork and collaboration.					
	I participated with fellows in content and pedagogy sessions.					
	I participated in training in authoring, submitting, or publishing professional papers.					
	I received other preparation in professional skills development (please specify):					
X	 Did you visit a foreign country as part of your GK-12 experie Yes No (If no, please skip the rest of this section) Experience per Country				Х	
Х	Country				X	
X	Main purpose of visit				<u></u> Х	
X					X	
X	Length of international experience in weeks (1-52) As part of your international experience, did you (check all that apply) • Work in a university and share research with graduate students and professors overseas • Work on activities similar to GK-12 with international teachers and students • Develop ongoing international collaborations/projects • Participate in a Research for Teachers program • Take credit/certification/recertification coursework/training • Conduct research/field work • Participate in other international activities (please specify):				X	
Х	Most beneficial professional or career related aspect of this international activity					X
X	Do you plan to continue with this international collaboration? Yes No 		Х			
X	Specify why you do or do not plan to continue with this international collaboration				X	
	9 Professional Experience					
	9. Professional Experience Has your professional practice in the following areas improve			X		

New Elements	Common Collection Categories Questions	Staff and Project Participant	Implementation Characteristics	Project Outputs
	 your participation in GK-12: (check all that apply) Content knowledge of science or math Access to innovative lesson plans Ability to incorporate inquiry-based lessons in the future Desire to continue your own education Involvement in professional networks/partnerships with university scientists Enthusiasm for science/math teaching 			
	 Has your involvement in the GK-12 program resulted in any of the following: (check all that apply) Opportunities to attend conferences Opportunities to make presentations at conferences Awards received 			X
	As a result of your participation in GK-12 have you observed improvement in your students in the following areas: (check all that apply) Content knowledge of science or math Enthusiasm about science or math Understanding of how to think like a scientist Interest in pursuing science or math in the future Interest in pursuing higher education Other (please specify) 			X
	Involvement with the GK-12 program			
X	Most important thing you gained from participating in the GK-12 program			X
X	Most important contribution you made to the GK-12 program			X
X	List up to two concerns about or areas of improvement for the GK-12 program or your experience with the program: Concern 1 Concern 2			X