Award	Project Title Formative Assessment in Mathematics: Current Status and	PI First	PI Last	PI Email Address	Institution University of California-	St
1020393		lamal	A b o d i	iahadi@uadayia adu		CA
1020595	Guidelines for Future Developments	Jamal	Abedi	jabedi@ucdavis.edu	Davis	CA
	Validation and Refinement of a Model for Teacher Professional				University of California-	
0722250	Development that Leverages a Major Applied Research Laboratory	lamal	A b o di	jabedi@ucdavis.edu	•	CA
0733350	CAREER: Work Contexts, Teacher Learning Opportunities, and	Jamal	Abedi		University of Missouri-	CA
0746936	· · · · · · · · · · · · · · · · · · ·	Matalia	م دادا ۵		•	N40
0746936	Mathematics Achievement of Middle School Students Cyber analysis Farth Evaluation: Development of Materials for	Motoko	Akiba	hoothor almquist@u	Columbia	МО
0040603	Cyber-enabled Earth Exploration: Development of Materials for		A l	heather.almquist@u	Hairmain, of Manager	D 4.T
0918683	Middle School Earth Science Instruction	Heather	Almquist	montana.edu	University of Montana	MT
4020407	A Learning Progression-based System for Promoting	GI I				2.41
1020187	Understanding of Carbon-transforming Processes (CCE)	Charles	Anderson	andya@msu.edu	Michigan State University	MI
4424040	Arcadia: The Next Generation Transforming STEM Learning			jodi_asbell-	TERCI	
1134919	through Transmedia Games	Jodi	Asbell-Clarke	clarke@terc.edu	TERC Inc	MA
	Leveling Up: Supporting and Measuring High School STEM			jodi_asbell-		
1119144	Knowledge Building in Social Digital Games	Jodi	Asbell-Clarke	clarke@terc.edu	TERC Inc	MA
	The Role of Educative Curriculum Materials in Supporting Science				University of California-	
0822119	Teaching Practices with English Language Learners	Jacqueline	Barber	U	Berkeley	CA
	Math Pathways and Pitfalls: Capturing What Works for Anytime	_		cbarnet@WestEd.or		
0918834	Anyplace Professional Development	Carne	Barnett-Clarke	g	WestEd	CA
	A Longitudinal Examination of Children's Developing Knowledge of					
	Measurement: Mathematical and Scientific Concept and Strategy		_			
0732217	Growth from Pre-K through Grade 5	Jeffrey	Barrett	jbarrett@ilstu.edu	Illinois State University	IL
	Building BLOCKS for Science: What Young Children Should Know				University of Texas at	
0821988	and Be Able to Do When They Enter Kindergarten	James	Barufaldi	edu	Austin	TX
	Development of a Cognition-guided, Formative-assessment-					
	intensive, Individualized Computer-based Dynamic Geometry					
1119034	Learning System for Grades 3-8	Michael	Battista		Ohio State University	ОН
	Closing the Math Achievement Gap for English Language Learners:			crbeal@email.arizon		
0903441	Technology Resources for Pre-algebra	Carole	Beal	a.edu	University of Arizona	AZ
	Exploring Engineering Design Knowing and Thinking as an			kbecker@engineerin		
0918621	Innovation in STEM Learning	Kurt	Becker	g.usu.edu	Utah State University	UT
				dwbeer@uchicago.e		
	Virtual Learning Communities: An Online Professional					
1020083	Development Resource for STEM Teachers	David	Beer	du	University of Chicago	IL
1020083	Development Resource for STEM Teachers CAREER: Supporting Middle School Students' Construction of	David	Beer	du brian.belland@usu.e	University of Chicago	IL
1020083 0953046	Development Resource for STEM Teachers	David Brian	Beer Belland		University of Chicago Utah State University	IL UT
	Development Resource for STEM Teachers CAREER: Supporting Middle School Students' Construction of			brian.belland@usu.e	·	

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
1020207	Dro V Farly Algebra through Quantitative Reasoning (DroVEA)	Zaur	Berkaliev	berkaliev@iit.edu	Illinois Institute of Technology	IL
1020207	Pre-K Early Algebra through Quantitative Reasoning (PreKEA)	Zdur	Berkallev		Institute of Ecosystem	IL
1020196	Data Evalerations in Ecology Project (DEED)	Alan	Dorkowitz	- ·	Studies	NIV
1020186	Data Explorations in Ecology Project (DEEP)	Alan	Berkowitz	itute.org		NY
0040640	Ecosystems and Evidence Project (Collaborative Research:		5 1 "	_	Institute of Ecosystem	N 137
0918610	Berkowitz)	Alan	Berkowitz	ies.org	Studies Davidenment	NY
0022244	Community for Advancing Discovery Research in Education	D =l- =	D	hh O - d	Education Development	
0822241	(CADRE)	Barbara	Berns	bberns@edc.org	Center	MA
				kberry@gi.alaska.ed		
0918340	Investigations in Cyber-enabled Education (ICE)	Kathy	Berry Bertram		Fairbanks Campus	AK
	Ready for Robotics: The Missing T and E of STEM in Early		_	marina.bers@tufts.e		
1118897	Childhood Education	Marina	Bers	du	Tufts University	MA
	ScratchJr: Computer Programming in Early Childhood Education as					
	a Pathway to Academic Readiness and Success (Collaborative			marina.bers@tufts.e		
1118664	Research: Bers)	Marina	Bers	du	Tufts University	MA
				Maria_Blanton@terc		
1154355	Children's Understanding of Functions in Grades K-2	Maria	Blanton	.edu	TERC Inc	MA
					University of	
	Developing Algebra-ready Students for Middle School: Exploring			Maria_Blanton@terc	Massachusetts,	
0918239	the Impact of Early Algebra	Maria	Blanton	.edu	Dartmouth	MA
	Promoting Spatial Thinking with Web-based Geospatial					
1118677	Technologies	Alec	Bodzin	amb4@lehigh.edu	Lehigh University	PA
	Agency in Sustained Problem-based Inquiry: Learning Science			bransj@u.washingto		
1019503	Through and as Innovation	John	Bransford	n.edu	University of Washington	WA
	Supports for Science and Mathematics Learning in Pre-					
	kindergarten Dual Language Learners: Designing a Professional			kimberly@ruccs.rutg	Rutgers University New	
1019576	Development System	Kimberly	Brenneman	ers.edu	Brunswick	NJ
		Stacey				
0733642	Chemistry Education Research Doctoral Scholars Program	Lowery	Bretz	bretzsl@muohio.edu	Miami University	ОН
	An Investigation of the Impact of Strengthening the "T" and "E"					
	Components of STEM in High School Biology and Chemistry			Debra.Brockway@st	Stevens Institute of	
0917540	Courses	Debra	Brockway	evens.edu	Technology	NJ
	SimScientists Human Body Systems: Using Simulations to Foster			bbuckle@wested.org		
	Integrated Understanding of Complex, Dynamic, Interactive					
1020264	Systems	Barbara	Buckley		WestEd	CA
			•			
	The Evidence Games: Collaborative Games Engaging Middle				University of Kansas	
1019842	School Students in the Evaluation of Scientific Evidence	Janis	Bulgren	jbulgren@ku.edu	Center for Research Inc	KS

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
				bill.bush@louisville.e	University of Louisville	
0821967	Geometry Assessments for Secondary Teachers (GAST)	William	Bush	du	Research Foundation Inc	KY
	School Structure and Science Success: Organization and					
	Leadership Influences On Student Achievement (Collaborative			mbbutler@mail.usf.e	·	
1119359	Research: Butler)	Malcolm	Butler	du	Florida	FL
	Language viels languing Coisean with English Language Language				University of Coursin	
1019236	Language-rich Inquiry Science with English Language Learners (LISELL)	Conv	Puyton	buxton@uga.edu	University of Georgia Research Foundation Inc	GA
1019230	(LISELL)	Cory	Buxton	buxton@uga.euu	Research Foundation inc	GA
	Cyber-enabled Learning: Digital Natives in Integrated Scientific			todd.campbell@usu.		
1020086	Inquiry Classrooms (Collaborative Research: Campbell)	David	Campbell	edu	Utah State University	UT
1020000	Professional Development for Culturally Relevant Teaching and		- Campacii		University of Wisconsin-	0.
1019431	Learning in Pre-K Mathematics	Thomas	Carpenter	tpcarpen@wisc.edu	Madison	WI
	SPIRIT 2.0: Silicon Prairie Initiative for Robotics in Information			bchen@mail.unoma	University of Nebraska-	
0733228	Technology 2.0	Bing	Chen	ha.edu	Lincoln	NE
	CAREER: A Study of Strategies and Social Processes that Facilitate					
	the Participation of Latino English Language Learners in			chvalkb@missouri.ed	University of Missouri-	
0844556	Elementary Mathematics Classroom Communities	Kathryn	Chval	u	Columbia	МО
	Enhancing Games with Assessment and Metacognitive Emphases		a. .	doug.clark@vanderb		
1119290	(EGAME)	Douglas	Clark	ilt.edu	Vanderbilt University	TN
1010170	Scaffolding Understanding by Redesigning Games for Education	Davidas	Claul	doug.clark@vanderb	Manadaulaila I Induseratio	TNI
1019170	(SURGE)	Douglas	Clark	ilt.edu	Vanderbilt University	TN
	Using Rule Space and Poset-based Adaptive Testing			Clements@buffalo.e		
	Methodologies to Identify Ability Patterns in Early Mathematics			du		
1019925	and Create a Comprehensive Mathematics Ability Test	Douglas	Clements		SUNY at Buffalo	NY
1013323	Investigating and Supporting the Development of Ambitious and	Douglas	Cicinents	paul.cobb@vanderbi	30111 at Banalo	
1119122	Equitable Mathematics Instruction at Scale	Paul	Cobb	lt.edu	Vanderbilt University	TN
					·	
	Completing, Validating, and Linking Learning Trajectories for K-8			jere_confrey@ncsu.e	North Carolina State	
1118858	Rational Number Reasoning Tied to the Common Core Standards	Jere	Confrey	du	University	NC
	Diagnostic E-learning Trajectories Approach (DELTA) Applied to			jere_confrey@ncsu.e	North Carolina State	
0733272	Rational Number Reasoning for Grades 3-8	Jere	Confrey	du	University	NC
4446345	Investigating the Impact of Math Teachers' Circles on				American Institute of	
1119342	Mathematical Knowledge for Teaching and Classroom Practice	J. Brian	Conrey	conrey@aimath.org	Mathematics	CA

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	Integrating Computing Across the Curriculum (ICAC):				University of Alabama at	
0918216	Incorporating Technology into STEM Education Using XO Laptops	Shelia	Cotten	cotten@uab.edu	Birmingham	AL
				beth.covitt@mso.um		
1020176	Reasoning Tools for Understanding Water Systems	Beth	Covitt	t.edu	University of Montana	MT
				midge6930@comcas	Rutgers University New	
1020201	The Value of Computational Thinking Across Grade Levels	Margaret	Cozzens	t.net	Brunswick	NJ
					Cornell Univ - State:	
	Fossil Finders: Using Fossils to Teach about Evolution, Inquiry and				AWDS MADE PRIOR MAY	
0733223	Nature of Science	Barbara	Crawford	bac45@cornell.edu	2010	NY
					Education Development	
1019945	Changing Curriculum, Changing Practice	Albert	Cuoco	alcuoco@edc.org	Center	MA
	Linear Algebra and Geometry: Advanced Mathematics for More				Education Development	
0733015	Students	Albert	Cuoco	alcuoco@edc.org	Center	MA
	An Examination of Science and Technology Teachers' Conceptual					
	Learning through Concept-based Engineering Professional		_		Black Hills State	
1158615	Development	Rodney	Custer	rlcuster@ilstu.edu	University	SD
1110001		E.1		ethan.danahy@tufts.		
1119321	InterLACE: Interactive Learning and Collaboration Environment	Ethan	Danahy	edu	Tufts University	MA
0040505	Science and Mathematics Integration for Literacy Enhancement	- 1		dasspm@appstate.e	Appalachian State	
0918505	(Project SMILE)	Pradeep	Dass	du	University	NC
	Mathematics and Culture in Micronesia: Integrating Societal			dawcana@hawaii ad	Pacific Resources for	
0918309		Alexander	Dawson			
0916309	Experiences (Macimise) CAREER: A Comprehensive Modeling Approach to Cognitively	Alexander	Dawson	u	Education and Learning	HI
	Diagnostic Assessment: Methodological Developments and			i delatorre@rutgers	Rutgers University New	
0744486	Practical Implementations	Jimmy	de la Torre	edu	Brunswick	NJ
0744400	Chemistry Facets: Formative Assessment to Improve Student	Jiiiiiiy	de la Torre	angela.haydel@sri.co		143
0733169	Understanding in Chemistry	Angela	DeBarger	m	SRI International	CA
0733103	Developing Contingent Pedagogies: Integrating Technology-	Allgela	Debaigei		311 International	<u> </u>
	enhanced Feedback into a Middle School Science Curriculum to			angela.haydel@sri.co	1	
0822314	Improve Conceptual Teaching and Learning	Angela	DeBarger	m	SRI International	CA
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	EcoMobile: Blended Real and Virtual Immersive Experiences for			Chris_Dede@harvard		
1118530	Learning Complex Causality and Ecosystems Science	Christopher	Dede	.edu	Harvard University	MA
	· · · · · · · · · · · · · · · · · · ·				Education Development	
0918648	Ecosystems and Evidence Project (Collaborative Research: DeLisi)	Jacqueline	DeLisi	jdelisi@edc.org	Center	MA

Cyber-enabled Design Research to Enhance Teachers' Critical Thinking Using a Major Video Collection on Children's Mathematical Reasoning (Collaborative Research: Derry) Mathematical Reasoning (Collaborative Research: Portor Practices Through Mathematical Reasoning in Algebra Mathematical Reasoning (Collaborative Research: Portor Practices Through Mathematical Reasoning in Algebra Mathematical Reasoning in Mathematics (TEACH Mathematics) Mathematical Reasoning in Mathematics (TEACH Mathematics) Mathematical Reasoning in Mathematics (TEACH Mathematics) Mathematical Thinking and Community-based Funds of Susan Doubler du TERC Inc Cdrake@iastate.edu Mathematical Thinking and Community-based Funds of Susan Doubler du TERC Inc Cdrake@iastate.edu Mathematical Reasoning in Madison Doubler du TERC Inc Cdrake@iastate.edu Mathematical Thinking and Community-based Funds of Susan Doubler du TERC Inc Cdrake@iastate.edu Mathematical Thinking and Community-based Funds of Susan Doubler du TERC Inc Cdrake@iastate.edu Mathematical Thinking and Community-based Funds of Susan Doubler du TERC Inc Cdrake@iastate.edu Mathematical Thinking and Community-based Funds of Susan Doubler du TERC Inc Cdrake@iastate.edu Mathematical Thinking and Community-based Funds of Susan Doubler du TERC Inc Cdrake@iastate.edu Mathematical Thinking and Community-based Funds of Susan Doubler du TERC Inc Cdrake@iastate.edu Mathematical Thinking and Community-based Funds of Susan Doubler du Terc Inc du Ter	Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
Thinking Using a Major Video Collection on Children's Mathematical Reasoning (Collaborative Research: Derry) Quality Cyber-enabled, Engineering Education Professional Development to Support Teacher Change and Student 0822261 Achievement (E2PD) Talk Science and Mathematics Simulated Interaction Model (SIM) Professional Development to Support Teacher Change and Student 118772 The Science and Mathematics Simulated Interaction Model (SIM) Talk Science: Scalable, Web-based Professional Learning to University Susan Doubler Teachers Empowered to Advance Change in Mathematics (TEACH MATH): Preparing Pre K-8 Teachers to Connect Children's Mathematical Thinking and Community-based Funds of 1020155 Knowledge Biocomplexity: Transforming an Innovative High School Urriculum with UDL Scaffolds and Multimedia Resources Brian Drayton Drayton TERC Inc TERC Inc TERC Inc TERC Inc O821950 Fostering Mathematics Success in English Language Learners Establishing a Roadmap for Large-scale Improvement of K-12 1049437 Education in the Geographical Sciences Disciplinary Experts in Science Education Research: A University of Disciplinary Experts in Science Education Research: A University of Maryland Program for Producing STEM Education Researchers Confronting the Challenges of Climate Literacy (Collaborative Confronting the Chal		Cubor anabled Design Percentch to Enhance Teachers' Critical					
Mathematical Reasoning (Collaborative Research: Derry) Sharon Derry wisc.edu Madison		•			siderry@education	University of Wisconsin-	
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Development to Support Teacher Change and Student Achievement (E2PD) Heidi Diefes-Dux hdiefes@purdue.edu Purdue University 1118772 The Science and Mathematics Simulated Interaction Model (SIM) Benjamin Dotger bdotger@syr.edu Syracuse University Talk Science: Scalable, Web-based Professional Learning to Susan Doubler du TERC Inc Teachers Empowered to Advance Change in Mathematics (TEACH MATH): Preparing Pre K-8 Teachers to Connect Children's Mathematical Thinking and Community-based Funds of Knowledge Corey Drake lowa State University Biocomplexity: Transforming an Innovative High School Curriculum with UDL Scaffolds and Multimedia Resources Brian Drayton edu TERC Inc Education Development Establishing a Roadmap for Large-scale Improvement of K-12 Education in the Geographical Sciences Daniel Edelson dedelson@ngs.org O733268 Active Physics Teacher Community Disciplinary Experts in Science Education Research: A University of Confronting the Challenges of Climate Literacy (Collaborative Confronting the Challenges of Climate Literacy	0022103	• • • • • • • • • • • • • • • • • • • •	Silaion	Derry	wisc.euu	iviauisoii	VVI
0822261 Achievement (E2PD) Heidi Diefes-Dux hdiefes@purdue.edu Purdue University 1118772 The Science and Mathematics Simulated Interaction Model (SIM) Talk Science: Scalable, Web-based Professional Learning to 0918435 Improve Science Achievement Teachers Empowered to Advance Change in Mathematics (TEACH MATH): Preparing Pre K-8 Teachers to Connect Children's Mathematical Thinking and Community-based Funds of 1020155 Knowledge Biocomplexity: Transforming an Innovative High School Curriculum with UDL Scaffolds and Multimedia Resources Establishing a Roadmap for Large-scale Improvement of K-12 Education in the Geographical Sciences Daniel Edelson Disciplinary Experts in Science Education Research: A University of 0733613 Maryland Program for Producing STEM Education Researchers Doubler National Georgraphic Society University of Massachusetts Boston National Academy of Sellistot @na. Amy Sellis selliott@nas.edu National Academy of Sellist@education.wi University of Wassonsin- O9562215 Quantitative Reasoning in Algebra Amy Sellis sc.edu Madison Didege-Dux hdiefes@purdue.edu Dotage bdotge@syr.edu Syracuse University Syracuse University Syracuse University Syracuse University Syracuse University Syracuse University TERC Inc Cdrake@iastate.edu TERC Inc Cdrake@iastate.edu TERC Inc Dawa State University Education Development Center Rational Grayton@etc Education Development Center National Georgraphic Society University of Massachusetts Boston Andrew Elby du College Park Confronting the Challenges of Climate Literacy (Collaborative Research: Ellins) National Academy of Selicit@ducation.wil University of Wisconsin- National Academy of Sociences CAREER: Supporting Students' Proof Practices Through Amy Ellis sc.edu Madison							
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Talk Science: Scalable, Web-based Professional Learning to 0918435 Improve Science Achievement Teachers Empowered to Advance Change in Mathematics (TEACH MATH): Preparing Pre K-8 Teachers to Connect Children's Mathematical Thinking and Community-based Funds of 1020155 Knowledge Biocomplexity: Transforming an Innovative High School 1020089 Curriculum with UDL Scaffolds and Multimedia Resources Brian Drayton TERC Inc Education Development Establishing a Roadmap for Large-scale Improvement of K-12 1049437 Education in the Geographical Sciences Daniel Disciplinary Experts in Science Education Research: A University of Disciplinary Experts in Science Education Research: A University of O733613 Maryland Program for Producing STEM Education Researches Confronting the Challenges of Climate Literacy (Collaborative CAREER: Supporting Students' Proof Practices Through O956223 Workshop on Assessment of 21st Century Skills CAREER: Supporting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Amy Ellis sc.edu Susan Doubler du TERC Inc Cdrake@iastate.edu Mark Driscoll Mark@iastate.edu TERC Inc Cdrake@iastate.edu Mark Driscoll Mark Driscoll Marylano(edu.org) Education Development TERC Inc Education Development Education Development TERC Inc Education Development TERC Inc Education Development TERC Inc Education Development Arthur Driscoll mdriscoll@edc.org Center National Georgraphic Society University of Collage Park Confronting the Challenges of Climate Literacy (Collaborative Religion Secure Sec	0022201	7.0		2.6.66 2 6.8			•
Doubler Doub	1118772	The Science and Mathematics Simulated Interaction Model (SIM)	Benjamin	Dotger	bdotger@syr.edu	Syracuse University	NY
Teachers Empowered to Advance Change in Mathematics (TEACH MATH): Preparing Pre K-8 Teachers to Connect Children's Mathematical Thinking and Community-based Funds of 1020155 Knowledge Corey Drake Iowa State University Biocomplexity: Transforming an Innovative High School Brian_drayton@terc. 1020089 Curriculum with UDL Scaffolds and Multimedia Resources Brian Drayton edu TERC Inc Education Development Center Establishing a Roadmap for Large-scale Improvement of K-12 1049437 Education in the Geographical Sciences Daniel Edelson dedelson@ngs.org Society University of 0733268 Active Physics Teacher Community Arthur Eisenkraft eisenkraft@att.net Massachusetts Boston Disciplinary Experts in Science Education Research: A University of Confronting the Challenges of Climate Literacy (Collaborative Confronting the Challenges of Climate Literacy (Collaborative Confronting the Challenges of Climate Literacy (Collaborative Confronting Students' Proof Practices Through Quantitative Reasoning in Algebra Amy Ellis sc.edu Madison Teache @iastate.edu cdrake@iastate.edu divastite Literacy brian_drayton@terc. edu TERC Inc Education Development Education Development Pathyon Education Research: A University of University of Education Researchers Andrew Elelson dedelson@ngs.org Society University of Maryland College Park Confronting the Challenges of Climate Literacy (Collaborative Research: Ellins) Research: Ellins University of Students' Proof Practices Through O956223 Workshop on Assessment of 21st Century Skills Stuart Elliot selliott@nas.edu Sciences CAREER: Supporting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Amy Ellis sc.edu Madison		Talk Science: Scalable, Web-based Professional Learning to			sue_doubler@terc.e		
MATH): Preparing Pre K-8 Teachers to Connect Children's Mathematical Thinking and Community-based Funds of 1020155 Knowledge Biocomplexity: Transforming an Innovative High School Curriculum with UDL Scaffolds and Multimedia Resources Brian Drayton Education Development Stablishing a Roadmap for Large-scale Improvement of K-12 Establishing a Roadmap for Large-scale Improvement of K-12 Daniel Edelson O733268 Active Physics Teacher Community Arthur Disciplinary Experts in Science Education Research: A University of Confronting the Challenges of Climate Literacy (Collaborative Confronting the Challenges of Climate Literacy (Collaborative More Confronting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Corey Drake Iowa Corey Drake Iowa State University of Maryland Iowa State University of Oeater Iowa State University of Oea	0918435		Susan	Doubler	du	TERC Inc	MA
Mathematical Thinking and Community-based Funds of 1020155 Knowledge Biocomplexity: Transforming an Innovative High School 1020089 Curriculum with UDL Scaffolds and Multimedia Resources Brian Drayton Brian Brian Drayton Brian Drayton Brian Drayton Brian Drayton Bria					cdrake@iastate.edu		
1020155 Knowledge Corey Drake Iowa State University							
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Postering Mathematics Success in English Language Learners Establishing a Roadmap for Large-scale Improvement of K-12 1049437 Education in the Geographical Sciences Daniel Edelson Edelson Date dedelson@ngs.org Center National Geographic Society University of Disciplinary Experts in Science Education Research: A University of Disciplinary Experts in Science Education Researchers Confronting the Challenges of Climate Literacy (Collaborative 1019815 Research: Ellins) Research: Ellins Workshop on Assessment of 21st Century Skills CAREER: Supporting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Mark Driscoll mdriscoll@edc.org Center National Georgraphic Scienty University of Anthur Eisenkraft eisenkraft eisenkraft@att.net Massachusetts Boston University of Maryland College Park kellins@ig.utexas.ed University of Texas at Research: Ellins National Academy of Sciences CAREER: Supporting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Amy Ellis sc.edu Mark Driscoll mdriscoll@edc.org Center National Georgraphic Scienty Halional Georgraphic Center National Georgraphic Anthur Eisenkraft eisenkraft eisenkraft@att.net Massachusetts Boston University of Maryland College Park kellins@ig.utexas.ed University of Texas at Sciences National Academy of Sciences CAREER: Supporting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Amy Ellis sc.edu Madison					brian_drayton@terc.		
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Establishing a Roadmap for Large-scale Improvement of K-12 1049437 Education in the Geographical Sciences Daniel Edelson dedelson@ngs.org Society University of O733268 Active Physics Teacher Community Disciplinary Experts in Science Education Research: A University of O733613 Maryland Program for Producing STEM Education Researchers Confronting the Challenges of Climate Literacy (Collaborative 1019815 Research: Ellins) National Georgraphic Edelson dedelson@ngs.org Society University of elby@physics.umd.e University of Maryland College Park kellins@ig.utexas.ed University of Texas at kellins@ig.utexas.ed University of Texas at National Academy of Sciences CAREER: Supporting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Arthur Eisenkraft eisenkraft@att.net Massachusetts Boston University of Maryland College Park kellins@ig.utexas.ed University of Texas at Elliott selliott@nas.edu Sciences aellis1@education.wi University of Wisconsin- Madison						•	
1049437 Education in the Geographical Sciences Daniel Edelson dedelson@ngs.org Society University of O733268 Active Physics Teacher Community Arthur Eisenkraft eisenkraft@att.net Massachusetts Boston Disciplinary Experts in Science Education Research: A University of O733613 Maryland Program for Producing STEM Education Researchers Andrew Elby du College Park Confronting the Challenges of Climate Literacy (Collaborative Confronting the Challenges of Climate Literacy (Collaborative 1019815 Research: Ellins) Katherine Ellins u Austin National Academy of O956223 Workshop on Assessment of 21st Century Skills CAREER: Supporting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Amy Ellis sc.edu Madison	0821950		Mark	Driscoll	mdriscoll@edc.org		MA
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O733613 Maryland Program for Producing STEM Education Researchers Andrew Elby du College Park Confronting the Challenges of Climate Literacy (Collaborative kellins@ig.utexas.ed University of Texas at 1019815 Research: Ellins) Katherine Ellins u Austin National Academy of O956223 Workshop on Assessment of 21st Century Skills Stuart Elliott selliott@nas.edu Sciences CAREER: Supporting Students' Proof Practices Through O952415 Quantitative Reasoning in Algebra Amy Ellis sc.edu Madison		Disciplinary Experts in Science Education Research: A University of			elhv@nhvsics umd e	University of Maryland	
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0952415 Quantitative Reasoning in Algebra Amy Ellis sc.edu Madison	0956223	Workshop on Assessment of 21st Century Skills	Stuart	Elliott	selliott@nas.edu	•	DC
,		CAREER: Supporting Students' Proof Practices Through			aellis1@education.wi	i University of Wisconsin-	
Virginia Polytechnic	0952415	Quantitative Reasoning in Algebra	Amy	Ellis	sc.edu	Madison	WI
						Virginia Polytechnic	
jeremy_ernst@ncsu. Institute and State					jeremy_ernst@ncsu.	Institute and State	
1156629 Transforming Teaching through Implementing Inquiry (T2I2) Jeremy Ernst edu University	1156629	Transforming Teaching through Implementing Inquiry (T2I2)	Jeremy	Ernst	edu	University	VA

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	Gateways to Algebraic Motivation, Engagement and Success				Virginia Polytechnic	
	(GAMES): Supporting and Assessing Fraction Proficiency with				Institute and State	
1118571	Game-Based, Mobile Applications and Devices	Michael	Evans	mae@vt.edu	University	VA
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	Researching the Expansion of K-5 Mathematics Specialist Program				Virginia Commonwealth	
0918223	into Rural School Systems	Reuben	Farley	rwfarley@vcu.edu	University	VA
	Data Games: Tools and Materials for Learning Data Modeling			bfinzer@keypress.co		
0918735	(Collaborative Research: Finzer)	William	Finzer	m	KCP Technologies	CA
	Project Delta: Digital Environments for the Learning and Teaching			ctfosnot@ccny.cuny.		
0822034	of Algebra	Catherine	Fosnot	edu	CUNY City College	NY
4020002	Oceans of Data: What is Needed to Support Students' Learning			:(Education Development	
1020002	with Large Scientific Databases? (Collaborative Research: Foster)	June	Foster	jfoster@edc.org	Center	MA
					University of Cincinnati	
1019672	Discovery Research K-12	Ted	Fowler	ted.fowler@uc.edu	Main Campus	ОН
1013072	Iterative Model Building (IMB): A Program for Training Quality	Teu	TOWICI	egalindo@indiana.ed		
0732143	Teachers and Measuring Teacher Quality	Enrique	Galindo	u	Indiana University	IN
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	Ecology Disrupted: Using Real Scientific Data about Daily Life to					
	Link Environmental Issues to Ecological Processes in Secondary				American Museum	
0918583	School Science Classrooms (Collaborative Research: Gano)	Steve	Gano	gano@amnh.org	Natural History	NY
					Consortium For	
					Mathematics & Its	
1108723	Curriculum and Assessment Partnership Conference	Solomon	Garfunkel	sol@comap.com	Applications Inc	MA
	Astrobiology in the Secondary Classroom Project: An Interdisciplinary Curriculum Developed by a Collaboration of					
				tannu@aaa tauniu ad	Tannassaa Stata	
0722100	Scientists and Educators from Three Different Minority	Todd	Comi	tgary@coe.tsuniv.ed		TNI
0733188	Communities Project M2: Maturing Mathematicians Advanced Curriculum for	1000	Gary	u kathy.gavin@uconn.	University	TN
0733189	Primary Level Students	M. Katherine	Gavin	edu	University of Connecticut	СТ
0/33103	Timary Level Students	W. Natherine	Gaviii	Cuu	Worcester Polytechnic	CI
0733286	ASSISTments Meets Inquiry	Janice	Gobert	jgobert@wpi.edu	Institute	MA
0733200	Learning Progressions for Scientific Inquiry: A Model	Janiec	GODELL	fgoldberg@sciences.		1417
0732233	Implementation in the Context of Energy	Fred	Goldberg	sdsu.edu	University Foundation	CA
	1					

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	Implementing the Mathematical Practice Standards: Enhancing			pgoldenberg@edc.or	Education Development	
1119163	Teachers' Ability to Support the Common Core State Standards	E. Paul	Goldenberg	g	Center	MA
				pgoldenberg@edc.or	Education Development	
0917958	Transition to Algebra: A Habits of Mind Approach	E. Paul	Goldenberg	g	Center	MA
	An Examination of the Impact of Teachers' Domain as a					
	Professional Development Tool on Teacher Knowledge and			lgoldenberg@edc.or	Education Development	
0732186	Student Achievement in Biology	Lauren	Goldenberg	g	Center	MA
					6 11 1 11 11	
				110 ()	Smithsonian Institution	
.=				rgould@cfa.harvard.	• •	
0733252	Exploring the Frontiers of Science with Online Telescopes	Roy	Gould	edu	Observatory	MA
4000460	Differentiated Professional Development: Building Mathematics		_		Education Development	
1020163	Knowledge for Teaching Struggling Learners	Fred	Gross	fgross@edc.org	Center	MA
	Formative Assessment in the Mathematics Classroom: Engaging				Education Development	
0918438	Teachers and Students	Fred	Gross	fgross@edc.org	Center	MA
0045600				tina_grotzer@pz.har		
0845632	CAREER: Learning About Complex Causality in the Classroom	Tina	Grotzer	vard.edu	Harvard University	MA
0004065	C: 1:: (00.0TE)			mhacker@nycap.rr.c		
0821965	Simulation and Modeling in Technology Education (SMTE)	Michael	Hacker	om	Hofstra University	NY
0722472	Application of Evidence-centered Design to State Large-scale			geneva.haertel@sri.c		
0733172	Science Assessment	Geneva	Haertel	om	SRI International	CA
4020040	The Control of the Co	GL		chris.hailey@usu.ed		
1020019	The Influence of MESA Activities on Underrepresented Students	Christine	Hailey	U ania hamiltan Onana	Utah State University	UT
1110051	Student Mathematics Learning through Self-Explanation, Peer	Full		eric.hamilton@pepp	Danis and the Lite is a matter.	64
1119654	Tutoring and Digital Media Production	Eric	Hamilton	erdine.edu	Pepperdine University	CA
0022470	Education of out Statistical Issues in Laws Calcutific Data Cata	laman	Ha wa wa a waa a w	jim_hammerman@t	TEDC Inc	D 4 A
0822178	Educating about Statistical Issues in Large Scientific Data Sets Evaluating the Developing Mathematical Ideas Professional	James	Hammerman	erc.edu	TERC Inc	MA
	Development Program: Researching its Impact on Teaching and			jim_hammerman@t		
1019769		lamas	Hammorman		TERC Inc	MA
1019/69	Student Learning	James	Hammerman	christopher.harris@s	TERC IIIC	IVIA
1020407	Efficacy Study of Project-based Inquiry Science	Christopher	Harris	ri.com	SRI International	CA
1020407	CAREER: Changing the Landscape: Towards the Development of a	Christopher	Hailis	11.00111	JA IIICI II ational	CA
0952460	Physics Identity in High School	Zahra	Hazari	zahra@clemson.edu	Clamson University	SC
0332400	Trysics ractitity in riigh school	20111.0	1102011	chemingway@botan		JC
0733280	Planting Science Research in Education	Claire	Hemingway		America	МО
0733200	Figure 16 Science Research III Education	Ciaire	Hemmigway	y.016	Attrictica	1410

Award	Project Title Mathematics Discourse in Secondary Classrooms: A Case-based	PI First	PI Last Herbel-	PI Email Address	Institution	St
0918117	Professional Development Curriculum	Beth	Eisenmann	bhe@msu.edu	Michigan State University	MI
	Supports for Learning to Manage Classroom Discussions: Exploring the Role of Practical Rationality and Mathematical Knowledge for			herbert@geo.tamu.e	University of Michigan	
0918425	Teaching	Patricio	Herbst	du	Ann Arbor	MI
	Further Development and Testing of the Target Inquiry Model for					
	Middle and High School Science Teacher Professional				Grand Valley State	
1118658	Development (Collaborative Research:Herrington)	Deborah	Herrington	herringd@gvsu.edu	University	MI
	Investigating the Effect of Professional Development,					
004000	Mathematical Knowledge for Teaching, and Instruction on			heather_hill@gse.ha		
0918383	Student Outcomes	Heather	Hill	rvard.edu	Harvard University	MA
4020242	T	OL		christian.hirsch@wm		
1020312	Transition to College Mathematics and Statistics	Christian	Hirsch	ich.edu	University	MI
					North American	
				khollweg@stanfordal		
1022024	A Francisco de fara Accessiona Francisco contal Litare de	Vanan.	Hallings	<u> </u>		D.C
1033934	A Framework for Assessing Environmental Literacy	Karen	Hollweg	umni.org	Environmental Education	DC
0822213	Evolution Readiness: A Modeling Approach Examining Different Curricular Approaches and Their Impact on	Paul	Horwitz	paul@concord.org	Concord Consortium	MA
	·			hatla@atlaaa		
0004344	High School Students' Understanding of Algebra: Phase 1			huntley@math.corne		N 13/
0901311	Studying the Intended Curriculum	Mary Ann	Huntley	ll.edu	Cornell University	NY
	A Longitudinal Randomized Trial Study of Middle School Science				Carra Harratana Chata	
0022452	for English Language Learners (Project MSSELL) (Collaborative	Davisili	tula.		Sam Houston State	T \
0822153	Research: Irby)	Beverly	Irby	edu_bid@shsu.edu	University	TX
					University of Georgia	
1125621	Diagnosing Toochars' Multiplicative Peasoning	Andrew	lacak	izsak@uga.edu	Research Foundation Inc	GA
1125021	Diagnosing Teachers' Multiplicative Reasoning	Andrew	Izsak	12Sak@uga.euu	Research Foundation inc	GA
1118168	LOCUS: Levels of Conceptual Understanding in Statistics	Tim	Jacobbe	jacobbe@coe.ufl.edu	University of Elevida	FL
1110100	Toward a Scalable Model of Mathematics Professional	11111	Jacobbe	Jacobbe@coe.un.euu	Offiversity of Florida	FL
	Development: A Field Study of Preparing Facilitators to Implement			ienniferi@davidslane	University of Colorado at	
0732212	the Problem-solving Cycle	Jennifer	Jacobs		Boulder	со
0/32212	the Fromenia Solving Cycle	Jenniner	Jacobs	.com	Texas State University -	- 00
0918744	Dynamic Geometry in Classrooms	Zhonghong	Jiang	zj10@txstate.edu	San Marcos	TX
0310744	CAREER: Teaching Practices That Support Fraction-based	Litorigitorig	Jidilg	debra.johanning@ut	Juli Ivial CO3	1/
0952661	Algorithmic Thinking	Debra	Johanning	oledo.edu	University of Toledo	ОН
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Beyond Bridging: Co-education of Preservice and Inservice Elementary Teachers in Science and Mathematics Bruce Helping Mathematics Teacher Become Culturally Relevant 1052662 Educators: New Tools for a New Generation Conference II Martin 1052667 Embodied STEM Learning Across Technology-based Learning 1052667 Embodied STEM Learning Across Technology-based Learning 1052667 Embodied STEM Learning Across Technology-based Learning 1052668 Educators: New Tools for a New Generation Conference II Mina Glenberg Mina Azeumalansana Mina Glenberg Mina Glenberg Mina Glenberg Mina Azeumalansana Mina Glenberg Mina Glenberg Mina Azeumalansana Mina Glenberg Mina Glenberg Mina Glenberg Mina Glenberg Mina Mina Mina Mina Glenberg Mina Glenberg Mina Mina Mina Mina Glenberg Mina Mina Mina Mina Glenberg Mina Mina Mina Mina Mina Glenberg Mina Mina Mina Mina Mina Mina Mina Mina	Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
1019866 Elementary Teachers in Science and Mathematics Bruce Johnson a.edu University of Arziona AZ		Beyond Bridging: Co-education of Preservice and Inservice			brucej@email.arizon		
Helping Mathematics Teacher Become Culturally Relevant 1052662 Educators: New Tools for a New Generation-Conference II Martin Johnson mijohnso@umd.ed College Park MD Embodied STEM Learning Across Technology-based Learning Johnson-mina, Johnson@assu.e 1020367 Environments Mina Glenberg du Arizona State University AZ Jordan Fisedu Brunswick NJ Assessing Instructional Quality in Mathematics: A Comparative O918589 Ecosystems and Evidence Project (Collaborative Research: Jordan) Rebecca Jordan Fisedu Brunswick NJ Assessing Instructional Quality in Mathematics: A Comparative Assessing Instructional Quality in Mathematics: A Comparative SAVE Science: Situated Assessment Using Virtual Environments for Science Content and Inquiry Science Content and Inquiry Assessing Teachers' Pedagogical Design Capacity and Mathematics Curriculum Use (Collaborative Research: Kim) ON-Kyeong Kim edu University MI Assessing Up Mathematics Achievement (SUMA) DIANA Teachers' Use of Standards-based Instructional Materials Cathy Kinzer Cakinze@nnsu.edu University NM DIKK12-Biograph: Graphical Programming for Constructing DIK12-Biograph: Graphical Programming for Constructing Mathematical Argumentation in Middle School: Bridging from Johnson Mathematical Argumentation in Middle School: Bridging	1019860	Elementary Teachers In Science and Mathematics	Bruce	Johnson	• -	University of Arizona	AZ
Embodied STEM Learning Across Technology-based Learning Mina Glenberg du Arizona State University AZ Glenberg du Glenberg du Arizona State University New Jordan@aesop.rutge Rutgers University New Brunswick NJ Assessing Instructional Quality in Mathematics: A Comparative Study of High and Low Value-added Teachers' Videotaped Lessons Nicole Kersting .edu University of Arizona AZ SAVE Science: Situated Assessment Using Virtual Environments for SAVE Science: Situated Assessment Using Virtual Environments for Secience Content and Inquiry Diane Ketelhut djk@umd.edu College Park MD Ok-Kyeong Kim edu University of Maryland University of Curriculum Use (Collaborative Research: Kim) Ok-Kyeong Kim edu University Mil Nathematics Achievement (SUMA) Cathy Kinzer Cakinzer@nmsu.edu University NY New Mexico State District Professional Development to Classroom Practice Jenifer Knodsen Frossonal Development to Classroom Practice Jenifer Knodsen Frossonal Development to Classroom Practice Logging Opportunities in Online Programs for Science (LOOPS): Opasa Student and Teacher Learning Data Materials For Students (Collaborative Research: Kinile) Classroom Practice Jenifer Knodsen Kimberle Koile kkoile@mit.edu of Technology MA Data Games: Tools and Materials for Learning Data Modeling Clifford Knold du Massachusetts Institute Opasa Clollaborative Research: Konold) Clifford Knold du Massachusetts America Massachusetts America Materials Materials Clollaborative Research: Konold) Clifford Knold du Massachusetts America Massachusetts America Massachusetts Institute Opasa Clifford Knold du Massachusetts America MA Energy: A Multidisciplinary, Online Course for High Britanger (Clifford Knold du Massachusetts America MA Energy: A Multidisciplinary, Online Course for High Britanger (Clifford Knold du Massachusetts America MA Energy: A Multidisciplinary, Online Course for High Britanger (Clifford Knold du Massachusetts America MA Energy: A Multidisciplinary, Online Course for High Britanger (Clifford Knold du Massachusetts America MA Energy:		Helping Mathematics Teacher Become Culturally Relevant				University of Maryland	
1020367 Environments Mina Glenberg du Arizona State University AZ 10918589 Ecosystems and Evidence Project (Collaborative Research: Jordan) Rebecca Jordan acsop.rutge Rutgers University New rs.edu Brunswick NJ 10949241 Study of High and Low Value-added Teachers' Videotaped Lesson Nicole Kersting edu University of Arizona AZ 1157534 Science: Situated Assessment Using Virtual Environments for Science Content and Inquiry Ok-Ketelhut djk@umd.edu College Park MD 1157534 Science Content and Inquiry Noke Assessing Teachers' Pedagogical Design Capacity and Mathematics Ok-Kyeong Kim edu University of Maryland Ok-Kyeong Kim edu University of Maryland Noke Vergong, kim@wmich. Western Michigan Noke Ve	1052662	Educators: New Tools for a New Generation-Conference II	Martin	Johnson	mljohnso@umd.edu	College Park	MD
O918589 Ecosystems and Evidence Project (Collaborative Research: Jordan) Rebecca Jordan rs.edu Brunswick NJ		Embodied STEM Learning Across Technology-based Learning		Johnson-	mina.johnson@asu.e		
Assessing Instructional Quality in Mathematics: A Comparative O949241 Study of High and Low Value-added Teachers' Videotaped Lessons Nicole SAVE Science: Situated Assessment Using Virtual Environments for Science Content and Inquiry Assessing Teachers' Pedagogical Design Capacity and Mathematics O918126 Curriculum Use (Collaborative Research: Kim) OR-Assessing Teachers' Pedagogical Design Capacity and Mathematics O918126 Curriculum Use (Collaborative Research: Kim) OR-Kyeong Kim O732184 Teachers' Use of Standards-based Instructional Materials O732185 Caling Up Mathematics Achievement (SUMA) O732186 Collaborative Research: Kim) ORKIZ-Biograph: Graphical Programming for Constructing O918832 Collaborative Online Projects for ELL Students (COPELLS) ORABHAMENT OF Science (LOOPS): ORABHAMENT OF Students (COPELLS) Carolyn New Mexico State ORABHAMENT OF Science (LOOPS): ORABHAMENT OF Science (LOOPS): O7323299 Student and Teacher Learning Data Games: Tools and Materials for Learning Data Modeling Data Games: Tools and Materials for Learning Data Modeling Designing and Studying a Multidisciplinary, Online Course for High Biological Sciences Nicole Kersting Redu University of Arizona AZ University of Maryland College Park MD OR-Ketelhut djk@umd.edu University MM Western Michigan University NP New Mexico State University NP Massachusetts Institute of Technology MA University of Oregon Cknox@uoregon.edu Eugene OR Nox Cknox@uoregon.edu Eugene OR Nox Cknox@uoregon.edu Eugene OR Mathematical Argumentation in Middle School: Bridging from Jennifer Nox Cknox@uoregon.edu Eugene OR Nox Cknox@u	1020367	Environments	Mina	Glenberg	du	Arizona State University	ΑZ
Assessing Instructional Quality in Mathematics: A Comparative 0949241 Study of High and Low Value-added Teachers' Videotaped Lessons Nicole SAVE Science: Situated Assessment Using Virtual Environments for 1157534 Science Content and Inquiry Diane Assessing Teachers' Pedagogical Design Capacity and Mathematics O918126 Curriculum Use (Collaborative Research: Kim) OR-Kyeong OR-Kyeong OR-Kyeong Kim OR-Kyeong Wim OR-Kyeong Kim OR-Kyeong Min OR-Kyeong Kim OR-Kyeong Kim OR-Kyeong Kim OR-Kyeong Min OR-Kyeong Min OR-Kyeong					jordan@aesop.rutge	Rutgers University New	
Study of High and Low Value-added Teachers' Videotaped Lessons Nicole Kersting .edu University of Arizona AZ SAVE Science: Situated Assessment Using Virtual Environments for 1157534 Science Content and Inquiry Diane Ketelhut djk@umd.edu College Park MD Ok Assessing Teachers' Pedagogical Design Capacity and Mathematics Ok Kyeong kim@wmich. Western Michigan University MI University MI Western Michigan University MI Western Michigan University MI Western Michigan University MI Western Michigan Western Michigan University MI Western Michigan Western Michigan University MI Western Michigan Western Michigan University NY New Mexico State Western Michigan University NY New Mexico State University NY New Mexico State University NM New Mexico State University MA Western Michigan University MA Western Michigan University NM New Mexico State University Massachusetts Institute University MA University Of Technology	0918589	Ecosystems and Evidence Project (Collaborative Research: Jordan)	Rebecca	Jordan	rs.edu	Brunswick	NJ
Study of High and Low Value-added Teachers' Videotaped Lessons Nicole Kersting .edu University of Arizona AZ SAVE Science: Situated Assessment Using Virtual Environments for 1157534 Science Content and Inquiry Diane Ketelhut djk@umd.edu College Park MD Ok Assessing Teachers' Pedagogical Design Capacity and Mathematics Ok Kyeong kim@wmich. Western Michigan University MI University MI Western Michigan University MI Western Michigan University MI Western Michigan University MI Western Michigan Western Michigan University MI Western Michigan Western Michigan University MI Western Michigan Western Michigan University NY New Mexico State Western Michigan University NY New Mexico State University NY New Mexico State University NM New Mexico State University MA Western Michigan University MA Western Michigan University NM New Mexico State University Massachusetts Institute University MA University Of Technology							
SAVE Science: Situated Assessment Using Virtual Environments for Science Content and Inquiry Diane Ketelhut Diane New College Park MD Ok-Noon Assessing Teachers' Pedagogical Design Capacity and Mathematics Kyeong.kim@wmich. Western Michigan University MI Karen.d.king@nyu.ed New York University NY New Mexico State Diane New Mexico State University NM DRK12-Biograph: Graphical Programming for Constructing Diane Massachusetts Institute Of Technology MA University of Oregon Diane Massachusetts Institute Of Technology MA University of Oregon Diane Massachusetts Institute Diane Diane Mathematical Argumentation in Middle School: Bridging from Diane Diane Massachusetts Institute Diane Diane Mathematica Institute Diane Diane Massachusetts Institute Diane Massachusetts Institute Diane Diane Massachusetts Institute Diane Diane Massachusetts Institute Diane Diane Diane Callaborative Research: Koile) Kimberle Kimberle Koile Koile Koold@srri.umass.e Diane Data Games: Tools and Materials for Learning Data Modeling Collaborative Research: Konold) Collifford Konold Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High					_		
Science Content and Inquiry Diane Ketelhut djk@umd.edu College Park MD Ok-	0949241	<u> </u>	Nicole	Kersting	.edu	•	AZ
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Assessing Teachers' Pedagogical Design Capacity and Mathematics	1157534	Science Content and Inquiry	Diane	Ketelhut	• •	College Park	MD
O732184 Teachers' Use of Standards-based Instructional Materials Karen King u New York University NY O732184 Teachers' Use of Standards-based Instructional Materials Karen King u New York University NY O733690 Scaling Up Mathematics Achievement (SUMA) Cathy Kinzer cakinzer@nmsu.edu University NM DRK12-Biograph: Graphical Programming for Constructing O7918832 Complex Systems Understanding in Biology Eric Klopfer klopfer@mit.edu of Technology MA O918832 Collaborative Online Projects for ELL Students (COPELLS) Carolyn Knox cknox@uoregon.edu Eugene OR Mathematical Argumentation in Middle School: Bridging from 1119518 Professional Development to Classroom Practice Jennifer Knudsen i.com SRI International CA INK-12: Teaching and Learning Using Interactive Ink Inscriptions in Logging Opportunities in Online Programs for Science (LOOPS): 0733299 Student and Teacher Learning Data Games: Tools and Materials for Learning Data Modeling Collaborative Research: Konold) Clifford Konold du Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High		A . T				AA7 1 AA7 1 7	
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Complex Systems Understanding in Biology Eric Klopfer klopfer@mit.edu of Technology MA University of Oregon University of Oregon Carolyn Knox cknox@uoregon.edu Eugene OR Mathematical Argumentation in Middle School: Bridging from INK-12: Teaching and Learning Using Interactive Ink Inscriptions in Ingging Opportunities in Online Programs for Science (LOOPS): Orange Skiller and Teacher Learning Student and Teacher Learning Data Games: Tools and Materials for Learning Data Modeling Orange Skiller Skinds Carolyn Knox cknox@uoregon.edu Eugene OR Jennifer Knudsen i.com SRI International CA Kimberle Koile kkoile@mit.edu of Technology MA Logging Opportunities in Online Programs for Science (LOOPS): Orange Skiller Research: Koile Koile kkoile@concord.org Concord Consortium MA Collaborative Research: Konold) Clifford Konold du Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High	0/33690	<u> </u>	Catny	Kinzer	cakinzer@nmsu.edu	•	INIVI
University of Oregon O918832 Collaborative Online Projects for ELL Students (COPELLS) Carolyn Knox cknox@uoregon.edu Eugene OR Mathematical Argumentation in Middle School: Bridging from 1119518 Professional Development to Classroom Practice Jennifer Knudsen i.com SRI International CA INK-12: Teaching and Learning Using Interactive Ink Inscriptions in Massachusetts Institute 1020152 K-12 (Collaborative Research: Koile) Kimberle Koile kkoile@mit.edu of Technology MA Logging Opportunities in Online Programs for Science (LOOPS): O733299 Student and Teacher Learning Kimberle Koile kkoile@concord.org Concord Consortium MA Data Games: Tools and Materials for Learning Data Modeling O918653 (Collaborative Research: Konold) Clifford Konold du Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High	1010220		Eric	Klonfor	klanfar@mit adu		N/A
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1119518 Professional Development to Classroom Practice INK-12: Teaching and Learning Using Interactive Ink Inscriptions in INK-12: Teaching and Learning Using Interactive Ink Inscriptions in IO20152 K-12 (Collaborative Research: Koile) Logging Opportunities in Online Programs for Science (LOOPS): O733299 Student and Teacher Learning Kimberle Koile Koile Koile Koile Koile@concord.org Concord Consortium MA Data Games: Tools and Materials for Learning Data Modeling (Collaborative Research: Konold) Clifford Konold Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High	0910032		Carolyli	KIIOX		Eugene	UK
INK-12: Teaching and Learning Using Interactive Ink Inscriptions in 1020152 K-12 (Collaborative Research: Koile) Kimberle Koile kkoile@mit.edu of Technology MA Logging Opportunities in Online Programs for Science (LOOPS): 0733299 Student and Teacher Learning Kimberle Koile kkoile@concord.org Concord Consortium MA Data Games: Tools and Materials for Learning Data Modeling konold@srri.umass.e University of (Collaborative Research: Konold) Clifford Konold du Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High Massachusetts Institute Kimberle Koile kkoile@mit.edu of Technology MA konold@srri.umass.e University of Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High	1110512		lennifer	Knudsen		SRI International	CA
1020152 K-12 (Collaborative Research: Koile) Kimberle Koile kkoile@mit.edu of Technology MA Logging Opportunities in Online Programs for Science (LOOPS): 0733299 Student and Teacher Learning Kimberle Koile kkoile@concord.org Concord Consortium MA Data Games: Tools and Materials for Learning Data Modeling konold@srri.umass.e University of (Collaborative Research: Konold) Clifford Konold du Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High Biological Sciences	1113316	•	Jenniner	Kiiduseii	1.00111		
Logging Opportunities in Online Programs for Science (LOOPS): 0733299 Student and Teacher Learning Kimberle Koile kkoile@concord.org Concord Consortium MA Data Games: Tools and Materials for Learning Data Modeling konold@srri.umass.e University of (Collaborative Research: Konold) Clifford Konold du Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High Biological Sciences	1020152		Kimherle	Koile	kkoile@mit edu		МΔ
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0918653 (Collaborative Research: Konold) Clifford Konold du Massachusetts Amherst MA Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High Biological Sciences	0733299		Kimberle	Koile	kkoile@concord.org	Concord Consortium	MA
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Energy: A Multidisciplinary Approach for Teachers (EMAT) Designing and Studying a Multidisciplinary, Online Course for High Biological Sciences		Data Games: Tools and Materials for Learning Data Modeling			konold@srri.umass.e	University of	
Designing and Studying a Multidisciplinary, Online Course for High Biological Sciences	0918653		Clifford	Konold	du	Massachusetts Amherst	MA
		Energy: A Multidisciplinary Approach for Teachers (EMAT)					
1118643 School Teachers Susan Kowalski skowalski@bscs.org Curriculum Study CO		Designing and Studying a Multidisciplinary, Online Course for High				Biological Sciences	
	1118643	School Teachers	Susan	Kowalski	skowalski@bscs.org	Curriculum Study	СО

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	Developing and Testing a Model to Support Student					
	Understanding of the Sub-microscopic Interactions that Govern				University of Michigan	
1118671	Biological and Chemical Processes	Joseph	Krajcik	krajcik@msu.edu	Ann Arbor	MI
	C	•	<u> </u>	skramer1958@verizo		
0732161	Reform Math Students' Transition from High School to College	Steven	Kramer	n.net	Arcadia University	PA
	Preservice Teachers Knowledge for Teaching Algebra for Equity in				Texas A&M Research	
1020132	the Middle Grades	Gerald	Kulm	u	Foundation	TX
	Rethinking How to Teach Energy: Laying The Foundations in			u		
1020013	Elementary School (Collaborative Research: Lacy)	Sara	Lacy	sara_lacy@terc.edu	TERC Inc	MA
	Mapping Developmental Trajectories of Students' Conceptions of				San Diego State	
0918780	Integers	Lisa	Lamb	Lisa.Lamb@sdsu.edu	University Foundation	CA
	A Study of the Struggling Learner's Knowledge and Development			_	University of Missouri-	
0918060	for Number and Operation	John	Lannin	u	Columbia	МО
	A Longitudinal Trial Study of Middle School Science for English		-	•		-
	Language Learners (Project MSSELL) (Collaborative Research: Lara-				Texas A&M Research	
0822343	Alecio)	Rafael	Lara-Alecio	a-lara@tamu.edu	Foundation	TX
	,			plarke@tamu.edu		
	Cultivating Hispanics and African Americans Reading, Math,			piarite C tarriareaa	Texas A&M Research	
1048544	Science (CHARMS) in Elementary Schools for Girls Conference	Patricia	Larke		Foundation	TX
	Engaging Secondary Students and Teachers Through a Proficiency-				The 21st Century	
	based Assessment and Reassessment of Learning Outcomes			lawrence@tradenet.	Partnership for STEM	
0918474	(PARLO) System in Mathematics	Nancy	Lawrence	net	Education	PA
	Confronting the Challenges of Climate Literacy (Collaborative			tamara_ledley@terc.		
1019721	Research: Ledley)	Tamara	Ledley	edu	TERC Inc	MA
	Promoting Science among English Language Learners (P-SELL)		·			
1118766	Scale-Up	Okhee	Lee	olee@miami.edu	University of Miami	FL
	CAREER: Engaging Elementary Students in Data Analysis through				·	
1054280	Study of Physical Activities	Victor	Lee	victor.lee@usu.edu	Utah State University	UT
	Mathematics Attainment and African-American Students:			-	,	
	Discourse from Multiple Perspectives (Collaborative Research:					
0907896	Leonard)	Jacqueline	Leonard	jleo@temple.edu	Temple University	PA
	Developing Science Problem-solving Skills and Engagement	·			North Carolina State	
0822200	Through Intelligent Game-based Learning Environments	James	Lester	lester@csc.ncsu.edu	University	NC
	-					
	The Leonardo Project: An Intelligent Cyberlearning System for				North Carolina State	
1020229	Interactive Scientific Modeling in Elementary Science Education	James	Lester	lester@csc.ncsu.edu	University	NC
					Education Development	
1119118	Next Generation Preschool Math	Ashley	Lewis	alewis@edc.org	Center	MA

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	Examining Formative Assessment Practices for English Language			minli@u.washington.		
1118951	Learners in Science Classrooms (Collaborative Research: Li)	Min	Li	edu	University of Washington	WA
					Ohio State University	
	Beyond Penguins and Polar Bears: Integrating Literacy and IPY in				Research Foundation -DO	
0733024	the K-5 Classroom	Kimberly	Lightle	lightle.16@osu.edu	NOT USE	ОН
				mclinn@berkeley.ed	University of California-	
1119670	CLASS: Continuous Learning and Automated Scoring in Science	Marcia	Linn	u	Berkeley	CA
				mclinn@berkeley.ed	University of California-	
0822388	Cumulative Learning using Embedded Assessment Results (CLEAR)	Marcia	Linn	u	Berkeley	CA
	Visualizing to Integrate Science Understanding for All Learners			mclinn@berkeley.ed	University of California-	
0918743	(VISUAL)	Marcia	Linn	U	Berkeley	CA
				xliu5@acsu.buffalo.e		
0918295	Connected Chemistry as Formative Assessment	Xiufeng	Liu	du	SUNY at Buffalo	NY
	Constructing and Critiquing Arguments in Middle School Science			المورد والمواهم والاستعادة	University of California	
1119584	Classrooms: Supporting Teachers with Multimedia Educative	C.,,,,	Lanan		University of California-	C 4
1119584	Curriculum Materials Persistent, Enthusiastic, Relentless: Study of Induction Science	Suzanna	Loper	u	Berkeley	CA
0918697	Teachers (PERSIST)	Julie	Luft	Julie.Luft@asu.edu	Arizona State University	AZ
0918097	Multiple Instrumental Case Studies of Inclusive STEM-focused	Julie	Luit	Julie.Luit@asu.euu	Alizona State Oniversity	AL
	High Schools: Opportunity Structures for Preparation and				George Washington	
1118851	Inspiration (OSPrI)	Sharon	Lynch	slynch@gwu.edu	University	DC
1110001	maphiculari (eer ri)	31141-011	- Lynen	siyiicii@gwa.caa	- Chirteroncy	
	An Architecture of Intensification: Building a Comprehensive				University of Illinois at	
0918434	Program for Struggling Students in Double-period Algebra Classes	James	Lynn	jlynn@uic.edu	Chicago	IL
	An Innovative Approach to Earth Science Teacher Preparation:		,	,, _	<u> </u>	
	Uniting Science, Informal Science Education, and Schools to Raise				American Museum	
1119444	Student Achievement	Maritza	Macdonald	maritza@amnh.org	Natural History	NY
	Cyber-enabled Design Research to Enhance Teachers' Critical					
	Thinking Using a Major Video Collection on Children's			carolyn.maher@gse.	Rutgers University New	
0822204	Mathematical Reasoning (Collaborative Research: Maher)	Carolyn	Maher	rutgers.edu	Brunswick	NJ
	Coherent Implementation of Mathematics Instructional Materials:					
0046400	A Study of the Variations and Effects of District Supports for				Education Development	
0918109	Implementation	June	Mark	jmark@edc.org	Center	MA
0052460	CAREER: Creating Effective, Sustainable Inquiry-based Instruction			marsha9@clemson.e		
0952160	in Middle School Science Classrooms	Jeff	Marshall	du	Clemson University	SC

Award	Project Title Improving Teacher Preparation and Student Learning through	PI First	PI Last	PI Email Address lcmcd@phys.washin	Institution	St
0733276	Physics Education Research	Lillian	McDermott	gton.edu	University of Washington	WA
0733270	Untangling Mathematical KnoTSS (Knowledge for Teaching	Lilliaii	WicDermott	gton.edu	Offiversity of washington	VVA
	Secondary School): An Investigation of Collaborations Between			rmcgraw@math.ariz		
0821996	Mathematicians and Mathematics Educators	Rebecca	McGraw	ona.edu	University of Arizona	ΑZ
0021330	Mathematicians and Mathematics Educators	Rebeccu	Wicoraw	Oliu.euu	National Board for	712
					Professional Teaching	
1119485	Teacher Residency Academy Alliance	William	McHenry	Willacad@aol.com	Standards	VA
	PROJECT ATOMS: Accomplished Elementary Teachers of	-	,	ellen_mcintyre@ncs		
1118894	Mathematics and Science	Ellen	McIntyre	u.edu	University	NC
	Confronting the Challenges of Climate Literacy (Collaborative		•	ksm163@msstate.ed	Mississippi State	
1019703	Research: McNeal)	Karen	McNeal	u	University	MS
	The Effectiveness of Inclusive STEM Schools at Scale: A Multistate			barbara.means@sri.c		
1118993	Longitudinal Quasi-experiment	Barbara	Means	om	SRI International	CA
	Electronic Teacher Guide: Its Development and Use in Supporting				Education Development	
0918702	Educative Curricula	Jacqueline	Miller	jsmiller@edc.org	Center	MA
	Taking Foundation Science to Scale Digitally: Transforming a					
	Print Curriculum into an Innovative Learning Tool for Commercial				Education Development	
1119736	Distribution	Jacqueline	Miller	jsmiller@edc.org	Center	MA
	Supporting Staff Developers in the Implementation of Professional					
	Development Programs to Improve Mathematics Education for				Education Development	
0822313	Students with Disabilities	Babette	Moeller	bmoeller@edc.org	Center	MA
	The Development of Student Cohorts for the Enhancement of					
0822175	Mathematical Literacy in Under Served Populations	Robert	Moses	pamoss@umich.edu	Algebra Project Inc	MA
000000	Accessing Science Ideas: Enhancing Curriculum to Support	.,		karen_mutch-	T-0.0.1	
0822039	Scientific Reasoning of Students with Learning Disabilities	Karen	Mutch-Jones	jones@terc.edu	TERC Inc	MA
	Investigating the Relationship Between Teacher-level and Student-					
	level Factors and NAEP Mathematics Test Performance by				Pacific Resources for	
1063360	American Indian and Alaska Native Students	Sharon	Nolson Parhor	nelsons@prel.org	Education and Learning	HI
1003300	American mulan and Alaska Native Students	311011	Neison-Barber	chris.ohana@wwu.e	Western Washington	1111
1119678	Model of Research-based Education for Teachers	Chris	Ohana	du	University	WA
1115076	Woder of Nesearch Based Education for Teachers	CITIS	Onana	apallant@concord.or	-	VVA
0929774	High Adventure Science	Amy	Pallant	g	Concord Consortium	MA
0323774		7.1117	rananc	0	202314 0011301114111	1417 (
	CAREER: Examining the Role of Context in the Mathematical				University of Georgia	
0844445	Learning of Young Children	Amy	Parks	amyparks@uga.edu	Research Foundation Inc	GA
	<u> </u>	1		71		

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
				napatterson@minds		
4005460		A 1 -1	5	pring.com	E.O. Wilson Biodiversity	NG
1005460	Life On Earth: Biodiversity and Evolution	Neil	Patterson		Foundation	NC
					University of California-	
	Oceans of Data: What is Needed to Support Students' Learning				San Diego Scripps Inst of	
1019644	with Large Scientific Databases? (Collaborative Research: Peach)	Cheryl	Peach	cpeach@ucsd.edu	Oceanography	CA
1013044	with Early Scientific Battabases. (Contaborative Research: Federif	Cheryi	T CUCH	cpedente desaleda	National Academy of	C, t
0935879	National Symposium on K-12 Engineering Education	Greg	Pearson	gpearson@nae.edu	Sciences	DC
	Toward Integrated STEM Education: Developing a Research	3		01 0	National Academy of	
1114829	Agenda	Greg	Pearson	gpearson@nae.edu	Sciences	DC
	Evaluation of the Cognitive, Psychometric, and Instructional			<u>.</u>		
	Affordances of Curriculum-embedded Assessments: A				University of Illinois at	
0732090	Comprehensive Validity-based Approach	James	Pellegrino	pellegjw@uic.edu	Chicago	IL
	Expanding PhET Interactive Science Simulations to Grades 4-8: A			katherine.perkins@c	University of Colorado at	
1020362	Research-based Approach	Katherine	Perkins	olorado.edu	Boulder	CO
1119468	Teaching Evolution through Human Examples (TEtHE)	Briana	Pobiner	PobinerB@si.edu	Smithsonian Institution	VA
					University of Missouri-	
0822354	Science Literacy through Science Journalism	Joseph	Polman	polman@umsl.edu	Saint Louis	MO
	Computer-supported Math Discourse among Teachers and			powellab@androme	Rutgers University	
1118888	Students (Collaborative Research: Powell)	Arthur	Powell	da.rutgers.edu	Newark	NJ
		_	_		Mobile Area Education	
0918769	Engaging Youth in Engineering Module Study	Susan	Pruet	spruet@maef.net	Foundation	AL
0700045		- 1		equellm@wested.or		
0733345	CalipersII: Using Simulations to Assess Complex Science Learning	Edys	Quellmalz	g	WestEd	CA
	Zydeco: A Mobile "Nomadic Inquiry" System to Support and			guintana@umich od	University of Michigan	
1020027	Bridge Science Inquiry Between Classroom and Museum Contexts	Christopher	Quintana	•	Ann Arbor	МІ
1020027	CAREER: Teaching and Learning Social Science Inquiry and Spatial	Christopher	Quintana	u	University of Illinois at	IVII
0953448	Reasoning with GIS	Joshua	Radinsky	joshuar@uic.edu	Chicago	IL
0333440	The NextBio Project: A Student Collaboratory for Biology	Josiida	Radiffsky	freichsman@concord		IL
0918642	Cyberlearning	Frieda	Reichsman	.org	Concord Consortium	MA
03100 YZ	Supporting Scientific Practices in Elementary and Middle School			reiser@northwester	555514 5511501614111	.,,,
1020316	Classrooms	Brian	Reiser	n.edu	Northwestern University	IL
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	Assessing Teachers' Pedagogical Design Capacity and Mathematics			Janiner@gse.upenn.	University of	
0918141	Curriculum Use (Collaborative Research: Remillard)	Janine	Remillard	edu	Pennsylvania	PA
L						

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	ScratchEd: Working with Teachers to Develop Design-based			mres@media mit ed	Massachusetts Institute	
1019396	Approaches to the Cultivation of Computational Thinking	Mitchel	Resnick	u	of Technology	MA
	ScratchJr: Computer Programming in Early Childhood Education as			•		
	a Pathway to Academic Readiness and Success (Collaborative			mres@media.mit.ed	Massachusetts Institute	
1118682	Research:Resnick)	Mitchel	Resnick	u	of Technology	MA
	Conference Series for Recent Graduates and Advanced Doctoral				University of Missouri-	
0922410	Students in Mathematics Education	Barbara	Reys	reysb@missouri.edu	Columbia	MO
	Considering the Future of K-12 STEM Curricula and Instructional				University of Missouri-	
0958058	Materials: Stimulating and Supporting New Developments	Barbara	Reys	reysb@missouri.edu		мо
				.,	University of California-	
0954222	CAREER: Learning to Make Mathematical Connections	Lindsey	Richland	lerich@uci.edu	Irvine	CA
	Persistence of Teacher Change in Rural Schools: Assessing the					
	Short- and Long-term Impact of Professional Development on K-2					
1119589	Science Instruction	Cathy	Ringstaff	ringst@wested.org	WestEd	CA
					Mid-Continent Research for Education and	
0822128	NanoTeach: Professional Development in Nanoscale Science	John	Ristvey	jristvey@mcrel.org	Learning	CO
					Rutgers University New	
1020166	The Challenge of Interdisciplinary Education: Math-Bio	Fred	Roberts	gers.edu	Brunswick	NJ
1020243	Integrating Engineering & Literacy	Chris	Rogers	Crogers@tufts.edu	Tufts University	MA
				jeremy.roschelle@sri		
0918339	A Digital Resource for Developing Mathematics Teachers' TPCK	Jeremy	Roschelle	.com	SRI International	CA
0733284	Inquiry-based Laboratories for Engaging Students of Creative and Performing Arts in STEM	Gail	Rosen	gailr@ece.drexel.edu	Drevel University	PA
0733204	Terrorning Arts in STEM	Gaii	ROSCII	gam @ ccc.arcxci.caa	Drexer Offiversity	- 1
	The INSPIRES Curriculum for Engineering and Technology				University of Maryland	
0822286	Education	Julia	Ross	jross@umbc.edu	Baltimore County	MD
	Enhanced Earth System Teaching Through Regional and Local				Paleontological Research	
0733303	(ReaL) Earth Inquiry	Robert	Ross	rmr16@cornell.edu	Institute	NY
	Science Teachers Learning from Lesson Analysis (STeLLA)				Biological Sciences	
0918277	Professional Development Program: Scaling for Effectiveness	Kathleen	Roth	kroth@bscs.org	Curriculum Study	со
0310277	Video Analysis of Science Teaching: Developing a Shared Words-to-	Nathitell	NULLI	KLOUII@D3C3.UIB	Biological Sciences	
0957996	images Analytical Tool	Kathleen	Roth	kroth@bscs.org	Curriculum Study	СО
					•	

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	Making Sense of Global Warming and Climate Change: Model of			aroychou@purdue.e		
0822181	Student Learning via Collaborative Research	Anita	Roychoudhury	du	Purdue University	IN
	CAREER: Teacher Learning Communities: Centering the Teaching			Irubel@brooklyn.cun	·	
0742614	of Mathematics on Urban Youth	Laurie	Rubel	y.edu	CUNY Brooklyn College	NY
	INK-12: Teaching and Learning Using Interactive Ink Inscriptions in			andee_rubin@terc.e		
1019841	K-12 (Collaborative Research: Rubin)	Andee	Rubin	du	TERC Inc	MA
	Examining Formative Assessment Practices for English Language			maria.ruiz-		
	Learners in Science Classrooms (Collaborative Research: Ruiz-			primo@ucdenver.ed	University of Colorado at	
1118876	Primo)	Maria	Ruiz-Primo	u	Denver	СО
	Using Routines as an Instructional Tool for Developing Students'			susan_jo_russell@te		
1019482	Conceptions of Proof	Susan Jo	Russell	rc.edu	TERC Inc	MA
	CAREER: Exploring the Role of Variability as an Organizing Concept					
	for the Teaching and Learning of Statistical Reasoning in Middle			luis.saldanha@asu.e		
0953987	School	Luis	Saldanha	du	Arizona State University	AZ
	Early Childhood Education in the Context of Mathematics,			jsarama@buffalo.ed		
1020118	Science, and Literacy	Julie	Sarama	u	SUNY at Buffalo	NY
	Introducing Dynamic Number as a Transformative Technology for			dscher@kcptech.co		
0918733	Number and Early Algebra	Daniel	Scher	m	KCP Technologies	CA
	Modeling Engineered Levers for the 21st Century Teaching of			schunn@pitt.edu		
1027629	STEM (Collaborative Research: Schunn)	Christian	Schunn		University of Pittsburgh	PA
	Learning and Teaching Geometry: VideoCases for Mathematics					
0732757	Professional Development	Nanette	Seago	nseago@wested.org	WestEd	CA
	School Organization and Science Achievement: Organization and			john.settlage@ucon		
1119349	Leadership Influences On Equitable Student Performance	John	Settlage	n.edu	University of Connecticut	CT
	AutoMentor: Virtual Mentoring and Assessment in Computer				University of Wisconsin-	
0918409	Games for STEM Learning	David	Shaffer	.edu	Madison	WI
	Achievements and Challenges of Modeling-based Instruction			_	University of Georgia	
1019866	(ACMI) in Science Education: from 1980 to 2009	Ji	Shen	om	Research Foundation Inc	GA
	Developing an Empirically-tested Learning Progression for the				Liniconnitry of Minhimon	
0022020	Transformation of Matter to Inform Curriculum, Instruction and		CI :	0	University of Michigan	
0822038	Assessment Design Learning Science as Inquiry with the Urban Advantage: Formal-	Namsoo	Shin	namsoo@umich.edu	Ann Arbor	MI
					American Museum	
0010560	Informal Collaborations to Increase Science Literacy and Student	la usa sa	Chart	و ما سمس کا مسلم ا	American Museum	NIX
0918560	Learning Teacher Helping Teachers Teach Science Inquiry The "Just ASV"	James	Short	jshort@amnh.org	Natural History	NY
0722405	Teacher Helping Teachers Teach Science Inquiry: The "Just ASK"	lances	Chamerale	jshymansky@umsl.e	University of Missouri-	N40
0733195	Project	James	Shymansky	du	Saint Louis	MO

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
1019513	Licing DISA to Dayolan Activities for Toocher Education (LIDDATE)	Edward	Cilvon	easilver@umich.edu	University of Michigan	N 41
1019313	Using PISA to Develop Activities for Teacher Education (UPDATE)	Edward	Silver	_	Ann Arbor	MI
1020154	Measurement Approach to Rational Number (MARN)	Martin	Simon	msimon@nyu.edu	New York University	NY
1010206	Effective Programs for Elementary Science: A Best-evidence	Daham	Claudia	mala vita @ila v. a dv.	lahaa Haakisa Haiwasiku	MD
1019306	Synthesis Bridging the Gap Between High School and College Physics: An	Robert	Slavin	rslavin@jhu.edu	Johns Hopkins University	MD
1020205		Comi	Cnaidar	as a side ready adu	Dortland Ctata University	OB
1020385	Exploratory Study Design and Use of Illustrations in Test Items as a Form of	Cary	Sneider	csneider@pdx.edu	Portland State University	OR
	_			guillarma salana@sa	University of Colorade at	
0022262	Accommodation for English Language Learners in Science and	C:!!!	Calana Flanca	•	University of Colorado at	60
0822362	Mathematics Assessment Examining Formative Assessment Practices for English Language	Guillermo	Solano-Flores	iorado.edu	Boulder	СО
				guillarma salana @sa	University of Colorado at	
1110011	Learners in Science Classrooms (Collaborative Research: Solano-	C. :!!!	Calana Flanca	_	University of Colorado at	60
1118844	Flores)	Guillermo	Solano-Flores	iorado.edu	Boulder	СО
	Change Thinking for Clabal Colones Factoring and Fucluating				University of Michigan	
0040500	Change Thinking for Global Science: Fostering and Evaluating	Nana	C		University of Michigan	N 41
0918590	Inquiry Thinking About the Ecological Impacts of Climate Change	Nancy	Songer	songer@umich.edu	Ann Arbor	MI
4055067	CAREER: Mathematics Instruction for English Language Learners		6 .		Texas State University -	T)/
1055067	(MI-ELL)	Alejandra	Sorto	sorto@txstate.edu	San Marcos	TX
1110000				kurt.squire@gmail.c	University of Wisconsin-	
1119383	CyberSTEM: Making Discovery Visible through Digital Games	Kurt	Squire	om	Madison	WI
4440==0	Computer-supported Math Discourse among Teachers and	_	a	Gerry.Stahl@drexel.		
1118773	Students (Collaborative Research: Stahl)	Gerry	Stahl	edu	Drexel University	PA
				carolyn@concord.or		
0918522	Developing, Researching, and Scaling Up SmartGraphs	Carolyn	Staudt	g	Concord Consortium	MA
	Mathematics Attainment and African-American Students:				Georgia State University	
	Discourse from Multiple Perspectives (Collaborative Research:				Research Foundation,	
0910672	Stinson)	David	Stinson	dstinson@gsu.edu	Inc.	GA
	CAREER: Noticing and Capitalizing on Important Mathematical				Michigan Technological	
1052958	Moments in Instruction	Shari	Stockero	stockero@mtu.edu	University	MI
	Effective Science Teaching for English Language Learners (ESTELL):					
	A Preservice Teacher Professional Development Research Project			stoddart@cats.ucsc.	University of California-	
0822402	Across Three Universities in California	Patricia	Stoddart	edu	Santa Cruz	CA
	Overcoming Obstacles to Scaling-up with a Cyberlearning					
	Professional Development Model (Collaborative Research:			sumner@colorado.e	University of Colorado at	
1118392	Sumner)	Tamara	Sumner	du	Boulder	CO
					University of Michigan	
1118745	Developing Teaching Expertise in K-5 Mathematics	Kara	Suzuka	ksuzuka@umich.edu	Ann Arbor	MI

Award	Project Title	PI First	PI Last	PI Email Address	Institution North Carolina State	St
1019934	Models of Professional Development for Mathematics Teachers	Paola	Sztajn	du	University	NC
1013334	Wodels of Froressional Development for Wathernatics Feathers	1 4014	Jetajii		North Carolina State	140
1020177	Project AIM: All Included in Mathematics	Paola	Sztajn	du	University	NC
1020177	1 Toject Alivi. Ali ilicidaca ili Mattierilatics	i aoia	Sztajii	uu	Offiversity	IVC
	RAPID-System-level Professional Development: Articulating					ļ
	Research Ideas that Support Implementation of PD Needed for			naola sztain@ncsu e	North Carolina State	ļ
1114933	Making the CCSS in Mathematics Reality for K-12 Teachers	Paola	Sztajn	du	University	NC
1114333	Waking the cess in Mathematics Reality for K-12 Teachers	1 4014	Jetajii		University of California-	110
0918836	Community Oriented Science Education	Herbert	Thier	thier@berkeley.edu	Berkeley	CA
0310030	Southeast Regional Technical Assistance and Information Follow-	Herbert	111101	there berkeley.edd	Deriverey	C/ (
	up Workshop for Minority-serving Institutions To Broaden			athompso@spelman.		I
1043144	Participation in NSF DRL Programs	Albert	Thompson	edu	Spelman College	GA
10 131 11	Tartelpation in too British grants	7.1.5011	mompson	thompson@tempest.		<u> </u>
0946433	Conference on Research on the Enacted Mathematics Curriculum	Denisse	Thompson	coedu.usf.edu	Florida	FL
05 10 155	Efficacy Study of Metropolitan Denver's Urban Advantage	De111336	mompson	kathleen.tinworth@	1101100	
	Program: A Project to Improve Scientific Literacy Among Urban			dmns.org	Denver Museum of	ļ
1020386	Middle School Students	Kathleen	Tinworth	ullilis.org	Nature and Science	СО
				ctrawick@morehous		
1119512	Morehouse College DR K-12 Preservice STEM Teacher Initiative	Cynthia	Trawick	e.edu	Morehouse College	GA
	Cluster Randomized Trial of the Efficacy of Early Childhood	-,				
1119327	Science Education for Low-income Children	Laurie	Van Egeren	vanegere@msu.edu	Michigan State University	MI
	Improving Science Learning in Inquiry-based Programs		. 8.	1 101 10 11 111	University of Colorado at	
0733322	(Collaborative Research: Van Vuuren)	Sarel H	Van Vuuren	sarel@colorado.edu	Boulder	со
					Rutgers University New	
0733255	Bioinformatics: Learning by Doing	Andrew	Vershon	utgers.edu	Brunswick	NJ
	<i>5</i> , <i>5</i>			judy_vesel@terc.edu		
1019542	Signing High School Science	Judy	Vesel	,, <u>_</u> C	TERC Inc	MA
	Honing Diagnostic Practice: Toward a New Model of Teacher					
0822342	Professional Preparation and Development	Stamatis	Vokos	vokos@spu.edu	Seattle Pacific University	WA
				skwang@nyit.edu		
	Cyber-enabled Learning: Digital Natives in Integrated Scientific			0	New York Institute of	
1020091	Inquiry Classrooms (Collaborative Research: Wang)	Shiang-Kwei	Wang		Technology	NY
	Improving Science Learning in Inquiry-based Programs				Boulder Language	
0733323	(Collaborative Research: Ward)	Wayne	Ward	wward@bltek.com	Technologies	СО
	Educating the Imagination: A Studio Design for Transformative			Beth_Warren@terc.		
1135120	Science Learning	Beth	Warren	edu	TERC Inc	MA

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	Interactive Science and Technology Instruction for English			markw@uci.edu	University of California-	
1053767	Learners (RAPID)	Mark	Warschauer		Irvine	CA
	Measuring the Effects of a School-based, Data-driven Professional			dave_weaver@rmcc	RMC Research	
1020310	Learning Model for Raising Secondary Mathematics Achievement	David	Weaver	orp.com	Corporation, OR	NH
	CAREER: Collaborative Learning with Classroom Networks:				University of California-	
0747536	Integrating Technological and Pedagogical Innovations	Tobin	White	twhite@ucdavis.edu	Davis	CA
	Math Snacks: Addressing Gaps in Conceptual Mathematics				New Mexico State	
0918794	Understanding with Innovative Media	Karin	Wiburg	kwiburg@nmsu.edu	University	NM
	Enabling Modeling and Simulation-based Science in the					
	Classroom: Integrating Agent-based Models, Real World Sensing			uri@northwestern.e		
1020101	and Collaborative Networks	Uri	Wilensky	du	Northwestern University	IL
	Designing an Integrated Framework for Genetics Education to					
1119055	Develop Innovative Curricula and Assessments	LaTonya	Williams	mwilliam@msu.edu	Michigan State University	MI
	STEM Learning in the Context of Green School Buildings: A				American Association for	
1135137	Curriculum Planning Project for the Middle Grades	Linda	Wilson	lwilson@aaas.org	Advancement Science	DC
				MarkW@berkeley.ed	University of California-	
0733334	Formative Assessment Delivery System (FADS)	Mark	Wilson	u	Berkeley	CA
	Tool Systems to Support Progress Toward Expert-like Teaching by			mwind@u.washingto		
0822016	Early Career Science Educators	Mark	Windschitl	n.edu	University of Washington	WA
	Rethinking How to Teach Energy: Laying The Foundations in					
1020020	Elementary School (Collaborative Research: Wiser)	Marianne	Wiser	Mwiser@clarku.edu	Clark University	MA
	Ecology Disrupted: Using Real Scientific Data about Daily Life to					
	Link Environmental Issues to Ecological Processes in Secondary			yaelwyner@gmail.co		
0918629	School Science Classrooms (Collaborative Research: Wyner)	Yael	Munor	-	CLINY City Collogo	NY
0918029	School Science Classicoms (Conaborative Research, Wyner)	raei	Wyner	m	CUNY City College	INT
0918449	Enhancing Engineering Education with Computational Thinking	Charles	Xie	qxie@concord.org	Concord Consortium	MA
	Nurturing Multiplicative Reasoning in Students with Learning					
	Disabilities in a Computerized Conceptual-modeling Environment					
0822296	(NMRSD-CCME)	Yan Ping	Xin	yxin@purdue.edu	Purdue University	IN
	Response to Intervention in Mathematics: Beginning Substantive				•	
	Collaboration between Mathematics Education and Special				National Council of	
1005328	Education	Kichoon	Yang	kyang@nctm.org	Teachers of Mathematics	VA

List of Invitees for 2012 DR K-12 PI Meeting. sorted by PI last name

Award	Project Title	PI First	PI Last	PI Email Address	Institution	St
	Further Development and Testing of the Target Inquiry Model for					
	Middle and High School Science Teacher Professional			yeziere@muohio.ed		
1118749	Development (Collaborative Research: Yezierski)	Ellen	Yezierski	u	Miami University	ОН
				yopp@math.montan		
0918326	Examining Coaching in Elementary (K-8) Mathematics Classrooms	David	Yopp	a.edu	Montana State University	MT
	Current Climate Changes over Eastern Siberia and Interior Alaska					
	and their Impact on Permafrost Landscapes, Ecosystem Dynamics,				University of Alaska	
0731739	and Hydrological Regime	Kenji	Yoshikawa	ffky@uaf.edu	Fairbanks Campus	AK
	Mathematics Instruction Using Decision Science and Engineering				North Carolina State	
0733137	Tools	Robert	Young	young@ncsu.edu	University	NC
					It's About Time, A	
	Overcoming Obstacles to Scaling-up with a Cyberlearning			bzahm@herffjones.c	Division of Herff-Jones	
1119202	Professional Development Model (Collaborative Research: Zahm)	Barbara	Zahm	om	Inc.	NY
	Studying Topography, Orographic Rainfall, and Ecosystems			daniel.zalles@sri.co		
1019645	(STORE) with Geospatial Information Technology	Daniel	Zalles	m	SRI International	CA
	Assessment for Learning Research Scholars: Capacity Building in			steven.ziebarth@wm	Western Michigan	
0733590	Mathematics and Science Education	Steven	Ziebarth	ich.edu	University	MI