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Award Abstract #1222869

Building High School Students' Understanding of Evolution--Both Common Ancestry and Natural Selection--Through Mathematical Arguments, Evidence-Based Explanations, and an Understan

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About Awards	Initial Amendment Date:	August 30, 2012
How to Manage Your Award	Latest Amendment Date:	August 30, 2012
Grant Policy Manual	Award Number:	1222869
Grant General Conditions		
Cooperative Agreement	Award Instrument:	Standard Grant
Conditions	Program Manager:	Julia Clark
Special Conditions	5 5	DRL Division of Research on Learning in Formal and Informal
 Federal Demonstration Partnership		Settings (DRL) EHR Directorate for Education & Human Resources
Policy Office Website	Start Date:	September 1, 2012
	Expires:	August 31, 2014 (Estimated)
	Awarded Amount to Date:	\$405,000.00
	Investigator(s):	Louisa Stark louisa.stark@utah.edu (Principal Investigator) Jo Ellen Roseman (Co-Principal Investigator) Kevin Pompei (Co-Principal Investigator) Dina Drits-Esser (Co-Principal Investigator)
	Sponsor:	University of Utah
		75 S 2000 E SALT LAKE CITY, UT 84112-8930 (801)581-6903
	NSF Program(s):	DISCOVERY RESEARCH K-12
	Program Reference Code(s):	SMET, 9177, 9150
	Program Element Code(s):	7645
	ABSTRACT	

The University of Utah will develop a plan for a model curriculum and associated assessments project that integrates science practices, crosscutting concepts, and core disciplinary ideas through the integration of mathematics and science and the application of appropriate educational technologies. The unit plan and prototype lessons will model ways in which quantitative literacy and the Common Core Standards of Mathematics can be addressed in the biology curriculum. This two-year exploratory research project will take place in the general biology classrooms of teachers in Utah, Maryland and

Washington, DC.

The project will develop the following: a detailed plan for a new, 5-week curriculum replacement unit for high school biology that helps students build a coherent understanding of evolution; a valid and reliable set of test items to assess students' understanding of the unit's learning goals using Project 2061 and to refine these measures using an iterative process of development, testing, expert review and revision; prototypes of five evolution lessons from the planned unit. In addition a the researcherss will conduct a small-scale pilot test of the prototype lessons with diverse student populations.

The unit plan and prototype lessons will be developed using a learning-goals-driven design model that includes iterative rounds of development, analysis for content coherence using American Association for the Advancement of Science (AAAS) Project 2061's valid and reliable analysis procedure, reviews by scientists and teachers, and revision.

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