

## Elementary Literacy Integrated With Science

Explore an integrated approach to teaching science and literacy through Problem-based Learning in this Learn-Try-Implement Professional Development

### Who

Albemarle County Public School Teachers

Cohort 1 (Begins Summer 2015): Content focus Energy and matter

Cohort 2 (Begins Summer 2016): Content focus TBA

### What

- Summer Institute (10 days) emphasizing science content and pedagogy each year
- Academic year follow-up (4 days) and in-classroom coaching support each year
- \$1000 stipend each year of participation
- Resources including NSTA SciPacks
- Develop curricular materials that integrate science and literacy through problem-based learning
- Collaborate with fellow ACPS elementary teachers

### To Learn More Contact:

Jennifer Maeng (UVa): [jlc7d@virginia.edu](mailto:jlc7d@virginia.edu)

Tony Borash (ACPS): [tborash@k12albemarle.org](mailto:tborash@k12albemarle.org)

### Apply Now!

Cohort 1 – Begins Summer 2015

Express Interest/Apply by May 1- <http://uva-acpsmsp.questionpro.com>

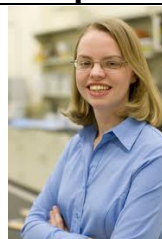
### Meet the PD Leadership Team



Jennifer Maeng (UVa - PI) has extensive experience working with science teachers across Virginia in PD and curriculum development settings.



Elizabeth Edmonson (VCU- co-PI) currently directs the VISTA Elementary Science Institute at VCU.



Jill Venton (UVa – co-PI) will teach science content during the summer institute. She is the faculty sponsor of Chemistry LEAD Outreach Program.



Ed Murphy (UVa – co-PI) will teach science content during the summer institute. He oversees the Astronomy Department's Education and Public Outreach Program.



## ACPS ELIS Proposed Schedule Overview

### Year 1 Crosscutting Concept Theme: Energy and Matter

	Morning (8:30-11:30am)		Afternoon (12:30-3:30pm)	
<b>Day 1 (June 11)</b>	Welcome/ Preassessments/ Energy and Matter as a unifying theme	What is inquiry?	What is inquiry (con't)?	What is nature of science?
<b>Day 2 (June 12)</b>	What is NOS (con't)?	What is problem- based learning? (Definition, Introduction to developing scenarios)	What is PBL (con't)? (overarching questions, culminating activities, and assessing PBL units)	
<b>Day 3 (June 15)</b>	Assessing PBL units/rubrics, developing a PBL Question Map		Science and Literacy I: Science notebooks, resources for integration, tradebooks, strategies	
<b>(June 16)</b>	ACPS CAI Summer Institute		ACPS CAI Summer Institute	
<b>Day 4 (June 17, PM only)</b>	ACPS CAI Summer Institute		Formative Assessment Strategies for PBL	Brainstorming Topics/Scenarios/Review existing for examples/Developing question map
<b>Day 4 (June 18, PM only)</b>	ACPS CAI Summer Institute		Scientific Misconceptions	Content Discussion Life science- Intro to content resources for "flipped" learning
<b>Day 5 (June 19)</b>	Content Discussions (Physical science)		Content Discussions (Physical science)	
<b>Day 6 July PD (1 day - TBA)</b>	Integrating Technology into a PBL Unit (What technologies are available?/ How to use these to mitigate misconceptions)		Integrating Technology into a PBL Unit/Culminating Activities (work session) – use existing examples as models and have t. figure out where they could put in tech/what tech they could put in	
<b>Day 7 (Aug 4)</b>	Content Discussions (Earth science)		Content Discussions (Earth/Life science)	Planning for Implementation
<b>Day 8 (Aug 5)</b>	Principals work with VCU admin specialist Science and Literacy Integration II: Analysis of resources currently used and ways to integrate		Principals with teachers Planning for Implementation (Daily Plans/Assessments)	
<b>Day 9 (Aug 6)</b>	Planning for Implementation (Inquiry/NOS)		Planning for Implementation (Literacy/Tech integration)	
<b>Day 10 (Aug 7)</b>	Sharing Units	Post Assessments		

Green – Pedagogy

Blue – Literacy integration

Purple – Content integration

Orange – Planning for implementation

Yellow- Pre/post assessments

White – ACPS PD Programs