

Serving the professional development needs of extraordinary educators. **Expect Extra-ordinary**

**D3 CCSS, Student Inquiry & 21<sup>st</sup> Century Learning**  
Katie McKnight, Ph.D.

**Together let's create extraordinary classrooms.**

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Serving the professional development needs of extraordinary educators. **Expect Extra-ordinary**

**We believe educators have the most important job in the world.**

**Together let's create extraordinary classrooms.**

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**What We'll Do In This Session**


Look at the standards and determine why project learning is a great fit.

Explore what makes a great question.

Samples and ideas for projects in different content areas.

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**What is Mastery?**



<https://www.youtube.com/watch?v=uGx>

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## What is Inquiry Learning?

- It isn't a specific technique or instructional practice.
- It is grounded in the notion that teachers are engaged learners and researchers.
- The topics we teach are rich with wonder and exploration.

## Through Inquiry Learning, Students are...

- tackling real-world questions, issues and controversies
- developing questioning, research and communication skills
- solving problems or creating solutions  
collaborating within and beyond the classroom
- developing deep understanding of content knowledge
- participating in the public creation and improvement of ideas and knowledge

It's about the **PROCESS**  
of Learning

## Inquiry Learning Teaching Practices

- ♦ problem-based learning: learning that starts with an ill-structured problem or case-study
- ♦ project-based learning: students create a project or presentation as a demonstration of their understanding
- ♦ design-based learning: learning through the working design of a solution to a complex problem

Source: <http://www.teachinquiry.com/index/Introduction.html>

1. Students come to the classroom with preconceptions about the world. This means teaching practices must draw out and work with students preexisting understandings and make student 'thinking' visible and central to the learning.

2. Competence in an area of study requires factual knowledge organized around conceptual frameworks to facilitate knowledge retrieval and application. Classroom activities should be designed to develop understanding through in-depth study of curriculum topics.

3. Meta-cognition (thinking about thinking) helps students take control of their learning. Opportunities for students to define learning goals and monitor their own understanding need to be embedded into classroom tasks.

**INQUIRY IS NOT MERELY 'HAVING STUDENTS DO PROJECTS' BUT RATHER STRIVES TO NURTURE DEEP, DISCIPLINE-BASED WAY OF THINKING AND DOING WITH STUDENTS.**

## Science Decomposition Lab



www.teachinginquiry.com

## Eight Elements on Inquiry Learning

- Authenticity
- Deep Understanding
- Performances of Understanding
  - Assessment
- Appropriate Use of Technology
  - Connecting with Experts
  - Student Success
  - Ethical Citizenship

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## We're Going to Look at CCSS Standards

- Let's look at some of the specific Literacy Standards and determine where inquiry learning intersects.
- <http://www.corestandards.org/ELA-Literacy/>



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## Galileo Educational Network



### Introduction to Inquiry Based Learning

by Neil Stephenson : @neilstephenson

*"The meaning of 'knowing' has shifted from being able to remember and repeat information to being able to find and use it."*  
(National Research Council, 2007)

Popular discussion on education as well as recent findings in the learning sciences tell a similar story. The model of education typical of 20th century classrooms was effective for that era of human history, but the "knowledge society" we now live in requires new thinking about what constitutes effective and engaging teaching and learning. Teachers are now faced with the challenge that "former conceptions of knowledge, minds and learning no longer serve a world where what we know is less important than

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