

# Learning Science Through Inquiry

VSB May 10 2013

I came expecting...



# Give & Go

On your card complete the following stem:

**Learning through inquiry is...**

Find a someone at a different table than you and read your cards to each other.

**Swap cards.**

Find another partner and read your “new” cards to each other.

**Swap cards.**

# Goals for the morning

That you leave with:

- Clarity about what inquiry looks like
- A framework that supports students learning to “think like scientists”
- Resources, materials and ideas that you can use on Monday

# Agenda

- Levels of Inquiry
- Inquiry #1: DRiVe

Break

- Inquiry #2: Inquiry Cards & Steps to Inquiry
- Smarter Science Framework & Process Skills Rubric
- Feedback and Gifts

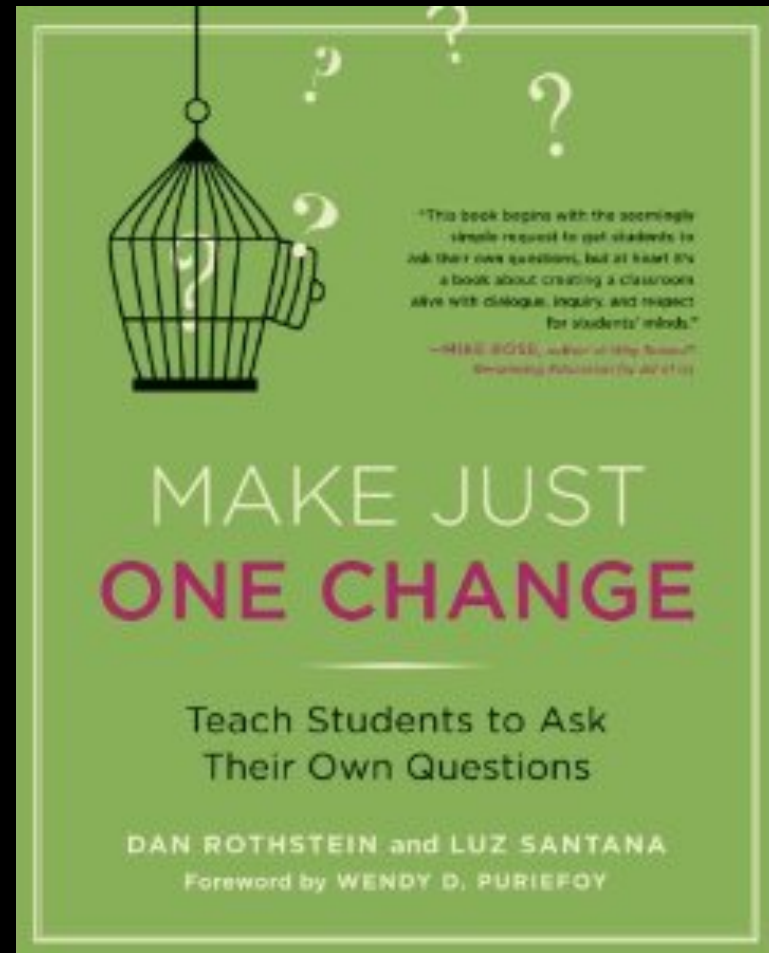
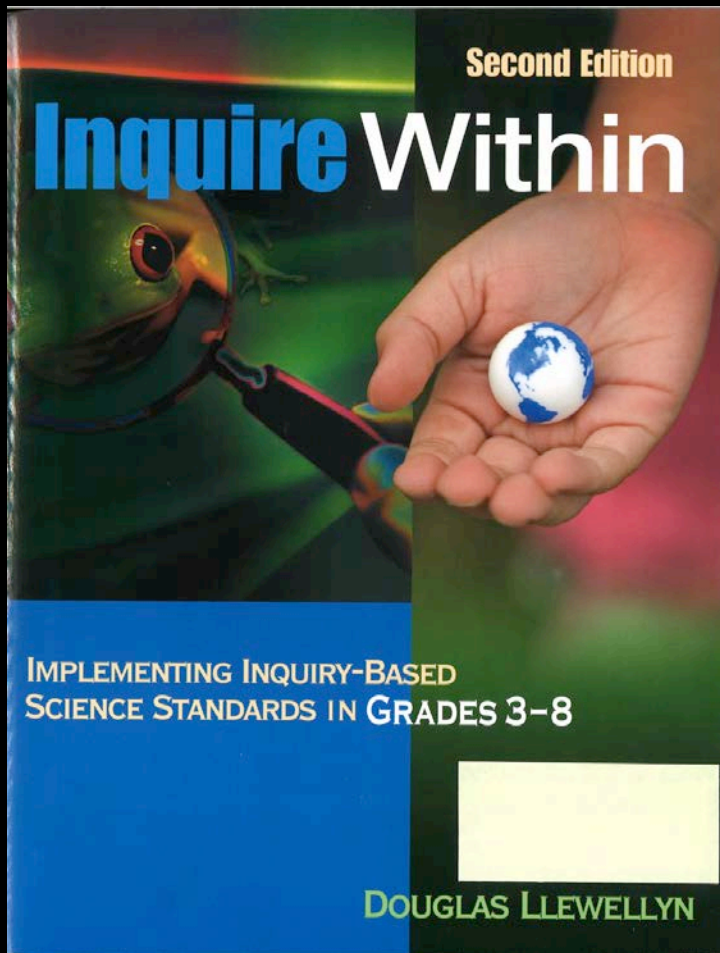
# Levels of Inquiry

Invitation to Inquiry Grid				
	<i>Demonstration</i>	<i>Activity</i>	<i>Teacher-Initiated Inquiry</i>	<i>Student-Initiated Inquiry</i>
Posing the question	Teacher	Teacher	Teacher	Student
Planning the procedure	Teacher	Teacher	Student	Student
Formulating the results	Teacher	Student	Student	Student

# Invitation to Inquiry Grid

	Demonstration	Activity	Teacher Initiated Inquiry	Student Initiated Inquiry
Pose Question	Teacher	Teacher	Teacher	Student
Plan Procedure	Teacher	Teacher	Student	Student
Formulate Results	Teacher	Student	Student	Student

# Two Books





# DRiVe

Demonstrate

Replicate

investigate

Variate

evaluate

# BREAK

Food & Drink

Inquiry Cards

Books

# Inquiry Cards

- "Inquiry Cards" are idea prompters that can be modified for your own purposes and are useful for starting an inquiry activity.
- Each Card fits on one piece of standard-sized paper which is folded to create a 'card'.
- Each inquiry activity is categorized by Inquiry Level and Grade Level.

# Inquiry Card Activity

- Closely examine the two dixie cups on your table
- Record your observations on **green** Post-It Notes
- Pour the water from one cup into the other
- Record your observations on **green** Post-It Notes
- What are you wondering?
- Record your observations on **yellow** Post-It Notes

# Steps to Inquiry Overview



BEGINNING  
EXPLORING  
EMERGING  
COMPETENT  
PROFICIENT

# Recap goals for the morning

That you leave with:

- Clarity about what inquiry looks like
- A framework(s) that supports students learning to “think like scientists”
- Resources, materials and ideas that you can use on Monday

# Before You Leave

Inquiry on the Mountain (Aug 21/22)

**Give:** Feedback Form

**Take:** Posters & Instant Snow