

# Good Morning!

Plan for the Day

Any big questions or comments?



# History of Materials

Summer Workshop 2017



# Curricula Backgrounds

- Inquiry-Oriented Linear Algebra
- Inquiry-Oriented Differential Equations
- (Inquiry-Oriented Abstract Algebra)

# Development Timeline: Inquiry-Oriented Linear Algebra

2007	2008	2009	2010	2011	2012	2013	2014
Classroom Teaching Experiment (CTE) #0,1		CTE #2	CTE #3	Applied for NSF grant to make IOLA materials sharable		Applied for NSF grant to develop instructional supports	

NSF Grant: Informal to formal reasoning  
PI's: Rasmussen (SDSU) & Zandieh (ASU)

NSF Grant: Developing Inquiry-Oriented Instructional Materials for Linear Algebra  
PI's: Wawro (VT), Rasmussen (SDSU), & Zandieh (ASU)

NSF Grant: Teaching Inquiry-Oriented Mathematics: Establishing Supports  
PI's: Johnson (VT), Keene (NCSU), and Andrews-Larson (FSU)

(Wawro, Rasmussen, Zandieh & Larson, 2013)

# Brief History of IODE Materials

- Written as part of a research program by Dr. Chris Rasmussen, San Diego State University from 1999-2003. Based on student thinking as researched in classes taught.
- Research in classroom teaching experiments
- Revised continuously during and after instruction until 2008 (and additions made since then). Used by ~20 teachers by 2008
- New version now online
- Based on Realistic Mathematics Education (a local instructional design theory)

Questions about the curricula?

# Plan for the Day

Content Breakout Session

Pedagogical Issues Session (“Nuts and Bolts”)

Content Breakout Session

Pedagogical Issues Session

Dinner: Times, options, signups