Lenoir STEM Learning Community
Just the facts, ma’am...

- **What is Lenoir STEM?** A program funded by MSP grant with additional financial support from industry partners.
- **Why?** 1) To support teachers in mathematics teaching, 2) to develop team of teacher leaders to help with district and school-wide initiatives, and 3) to foster local industry/education partnerships.
- **Who?** K-12 Lenoir County Teachers; ECU Faculty; Industry Partners.
- **When?** Summer Institute July 11-21 with four additional PD days during the year.
- **How do I register?** Register online at http://blog.ecu.edu/sites/lenoirstem/
Lenoir STEM Learning Community Partners

- Lenoir County Schools
- East Carolina University
- Industry Partners
  - Best Diamond Packaging
  - Chef & The Farmer
  - Down East Protection Systems
  - Department of the Navy
  - Domestic Fabrics & Blanket Corporation
  - Dupont Industrial Biosciences
  - Electrolux Home Product
  - Spirit AeroSystems
  - West Pharmaceutical Services
Project Overview

- Three year project with 30 teachers completing the professional development each year.
- Ten teachers selected as part of a teacher leadership team will participate the entire three years.
- Opportunities specifically for administrators in years two and three.
2016-2017

Cohort 3

Teacher Leadership Group

Administrators

Summer Institute + 4 School Days
- Number and Tasks Course / Formative Assessment (Grades K-5)
- Reasoning with Data and Measurement / Industry Visits (Grades 6-12)

Summer Institute + 4 School Days + Online Course
- Work on district and school initiatives with ECU faculty and lead small groups for new cohort (summer).
- Begin Lenses on Learning Training and continue small group work (during the year)
- Online course

4 School Days (mornings only)
- Begin Lenses on Learning Training
Benefits for Participants

- 84 hours of mathematics professional development
- Stipend for summer institute days
- Graduate credit for one Mathematics Education course at East Carolina University
- $100 to spend on classroom materials
- $150 worth of books/software
Grant Evaluation
(What are our goals?)

- Increased teacher content knowledge
- Increased understanding of mathematical practices
- Increased teacher efficacy
- Increased student achievement
- Increased student use of mathematical practices, specifically discourse and modeling
- Increased use of data to drive instructional decision-making
- Increased access to high-demand tasks, particularly real-world tasks connected to industry partners
The research component of the project will investigate:

- The ways in which a group of elementary teachers implement a formative assessment and intervention process focused on core mathematics topics
- The impact of that implementation on student learning of those core topics
- The impact of that implementation process on teachers’ mathematics knowledge, beliefs and attitudes
2016-2017 Timeline

- April 15 - Cohort 3 Registered
- May 15– Summer Institute information sent to Cohort 3 and Teacher Leadership Team
- July 11-21 Summer Institute at Teacher’s Memorial
- 2016-2017 School Year – Four PD days (TBD)
- Lenses on Learning Training (Teacher Leadership Team and Administrators) – Four mornings during school year