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# Connecticut Common Core Algebra I Curriculum

## *Overview*

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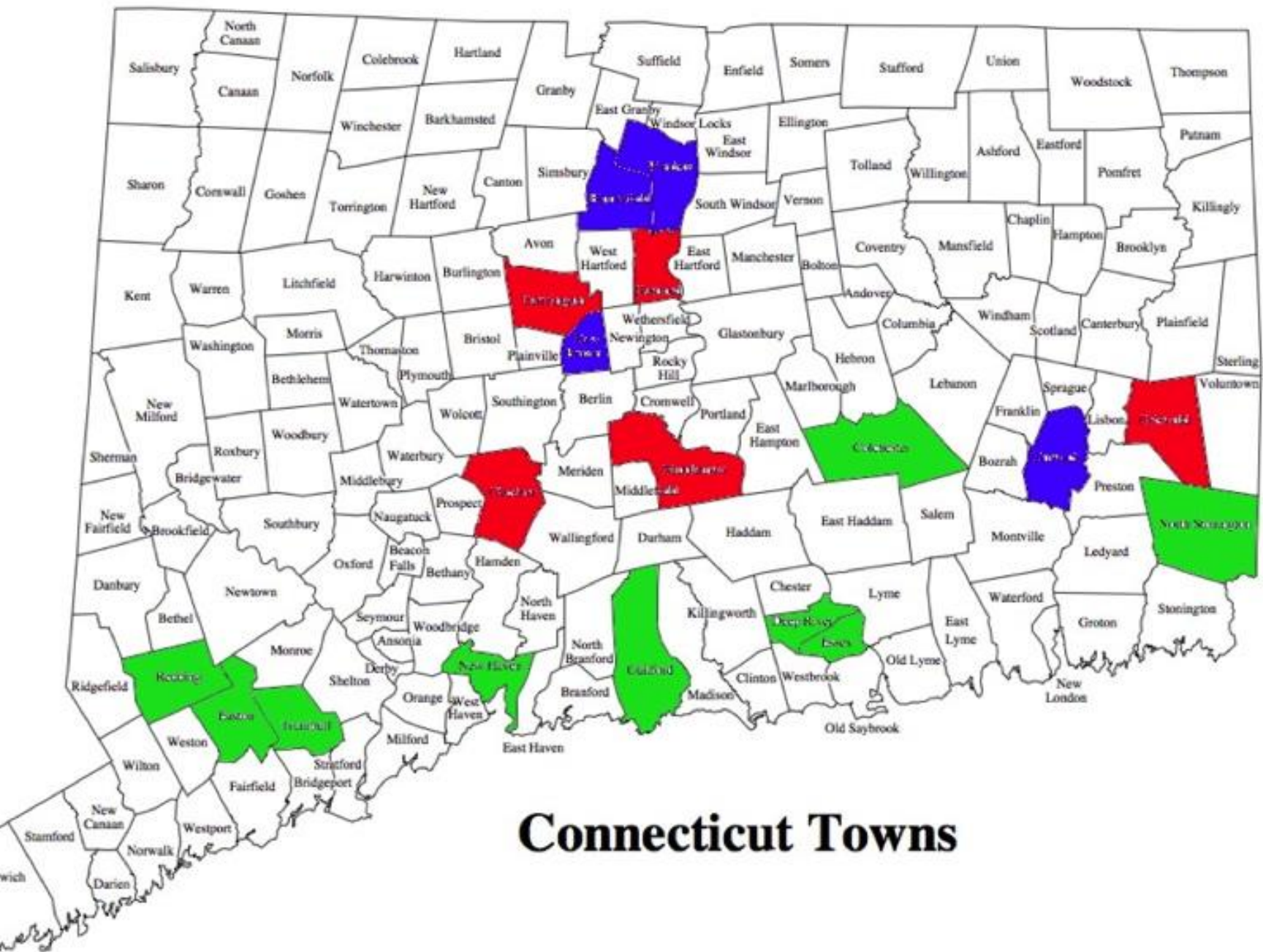
# Today's Presenters

# Today's Agenda

- Welcome
- A Brief History of the Algebra I Model Curriculum
- Overview
- In-depth look at Unit I Patterns

# A Brief History

- 2009 – State of CT awarded a grant to CT Academy of Science and Engineering to develop a model curriculum for Algebra I
- Curriculum supported CT Secondary Education Reform
- Aligns with Common Core State Standards
- Field-tested 2010-2013 (in districts shown on next slide)



# Connecticut Towns

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# Curriculum Design Principles

- Emphasizes Problem Solving
- Emphasizes Mathematical Reasoning
- Incorporates Real-World Applications
- Uses Multiple Representations
- Incorporates 21<sup>st</sup> Century Skills
- Incorporates Effective Use of Technology
- ***Aligned with Common Core Standards for Mathematical Practice***



# Curriculum Design

## Contents

Unit 1: Patterns

Unit 2: Linear Equations & Inequalities

Unit 3: Functions

Unit 4: Linear Functions

Unit 5: Scatterplots & Trend Lines

Unit 6: Systems of Linear Equations

Unit 7: Introduction to Exponential Functions

Unit 8: Quadratic Functions & Equations

Capstone Project: Linear Programming or  
(The Andromeda Strain)



# Advice from 2012-13 Pilot Teachers

- “Spend a LOT of time doing the activities ahead of time and planning out anticipated problems.”
- “Work with others! Collaboration is key!”
- “Plan with your grade / course level teachers, on a school or district level.”
- “Sit down with your team prior to each unit to set up a pacing and list of activities for each unit.”

# More advice

- “Some activities can be done differently than giving the students the activity packet. Be creative to take an activity and deliver it as stations or some other method.”
- “Keep the moodle site in your favorites. It helped – in class I would bring up an activity on overhead/Smartboard to follow along with the class.”

# And more...

- “Organized chaos (in the classroom) is okay. Don’t be afraid to let go.”
- “Review material early!”
- “Stay positive and know there is a plan in each investigation.”
- “Keep an open mind and have a positive attitude.”
- “Make copies this summer for unit I, you will need tons.”