Curriculum Information Night

October 8, 2024

Office of Teaching and Learning

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Tom Callahan, Director of Science and Mathematics (K-12)

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Kate Alix, Literacy Staff Developer (K-5)

Beth Finkelstein, Math Staff Developer (K-5)

Welcome

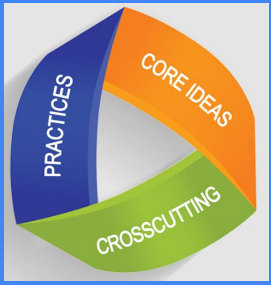
Structure of the Evening

- ✓ Overview of the Standards and Our Curricular Approaches
- ✓ Next Generation Science Standards and the New York State Science Learning Standards
- ✓ The Social Studies Framework
- ✓ Technology Integration and Standards
- ✓ Breakout Sessions:
  - ELA
  - Math

Overview of Teaching and Learning (K-5)

- Next Gen Standards
  - Cultivation of lifelong learners
  - Inquiry-based
- A Balance: Skills, Content/Core Ideas, and Relevance
  - Engagement
  - Understanding over rote skills
- Authentic and personalized experiences
- Technology integration

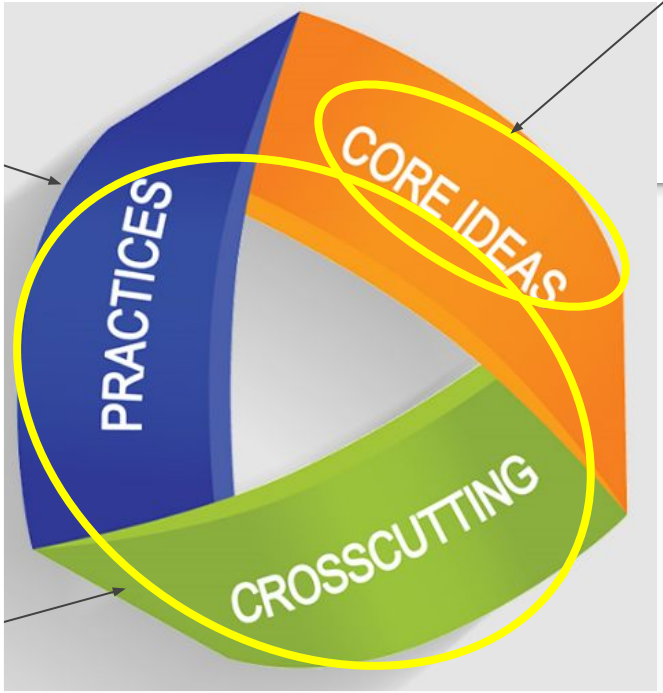
Next Generation Science Standards and New York State Science Learning Standards



A. The New York State Science Learning Standards (NYSSLS) are derived from the national Next Generation Science Standards (NGSS)
B. The shift in these standards involves a 3 dimensional approach to teaching science in our schools
C. Content is still a major piece, but depth is emphasized
D. Content is now articulated through Disciplinary Core Ideas (DCIs)
E. Scientific and Engineering Practices (SEPs) have equal weight with DCIs
F. Crosscutting is also given equal weight, as these new standards emphasize the integration of each discipline of science over its compartmentalization.

SEPs are just as important as content. Experiences must be hands-on, student centered, and less prescribed. While you can use processes to explore content and/or DCIs, if you are teaching SEPs explicitly, you are covering your curriculum.

The idea that principles of science fall neatly into chemistry, physics, biology, or Earth Science is antiquated. Concepts in science cut across those disciplines and even into others beyond science.



Our traditional emphasis, which is now being re-structured as Disciplinary Core Ideas (DCIs), represent the major understandings emphasizing depth of knowledge.

Elementary STEM Movie Series

Funded by Kelton Family Grant

Sponsored by the Math and Science Departments

In Collaboration with MINDSET, Inc.

2024-2025 Dates:

- 12/9
- 2/24
- 4/22
- 5/5

Social Studies Framework

- Focuses on conceptual understanding
- Fosters student inquiry, collaboration, and informed action
- Integrates content and skills purposefully

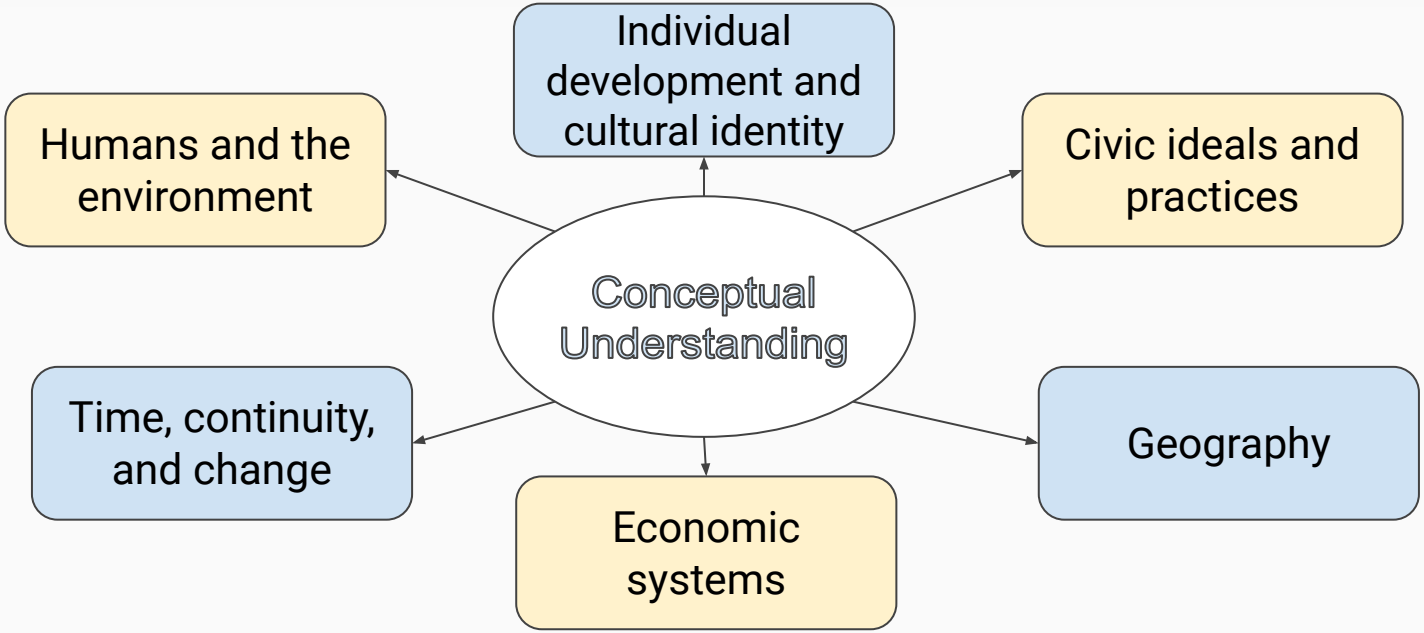


Social Studies Framework



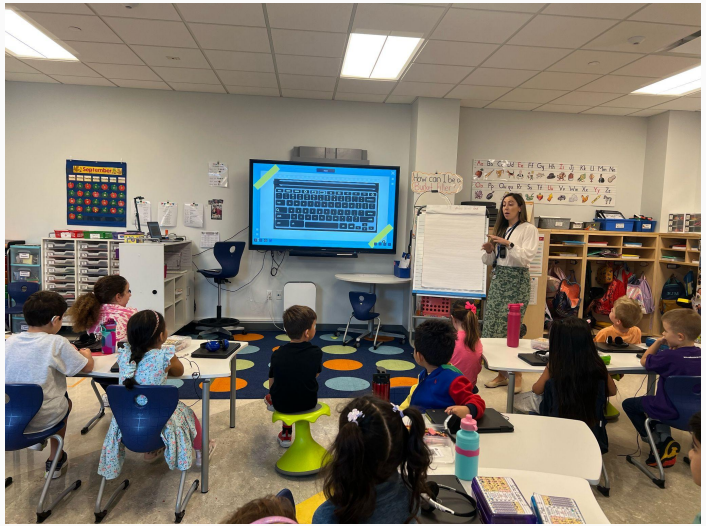
- Gathering, Using, and Interpreting Evidence
- Chronological Reasoning and Causation
- Comparison and Contextualization
- Geographic Reasoning
- Economics and Economics Systems
- Civic Participation: Current Events (4&5)

Social Studies Content



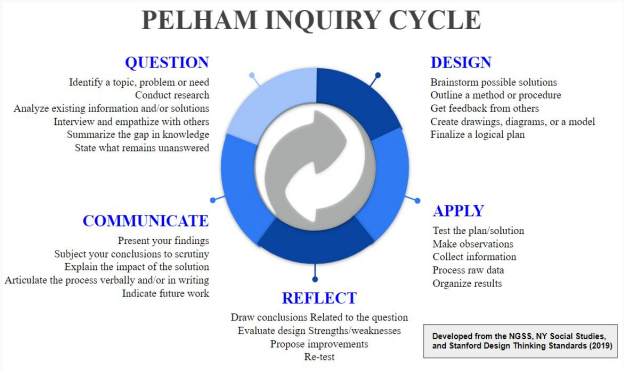
What do we have in Pelham?

- G Suite school district
- Extensive software suite
- Each classroom has an interactive display and document camera
- K-5 classrooms - dedicated chromebook cart
- K-1 classrooms - 10 iPads
- All faculty members have a device



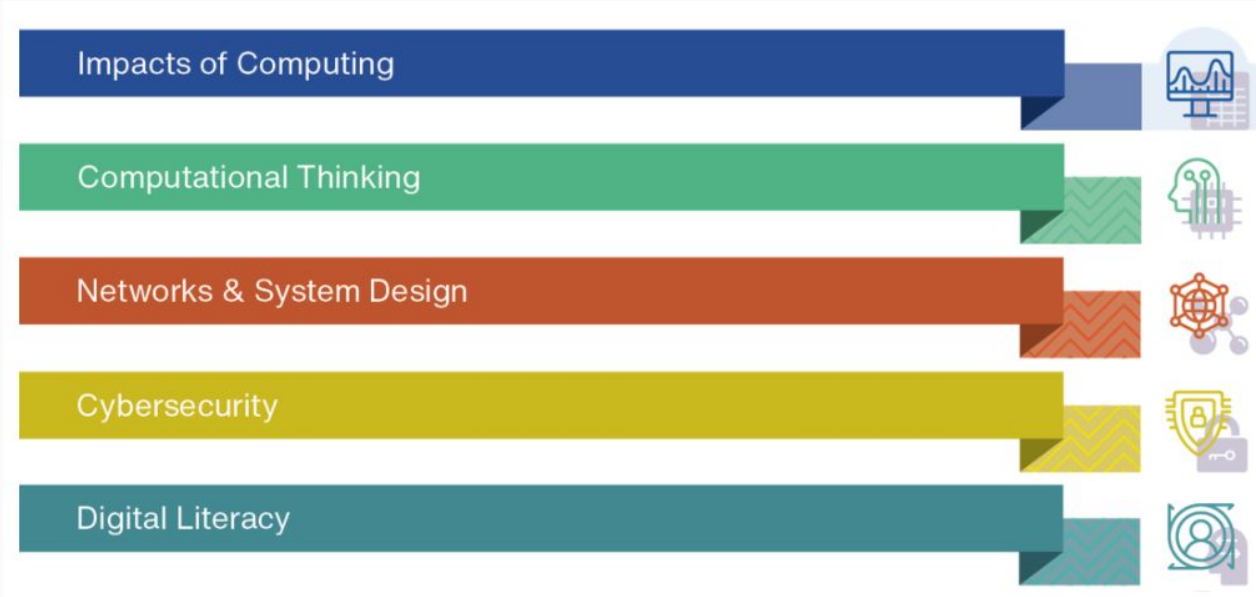
Instructional Technology in Pelham

- Focus on instruction and innovation
- Technology as a tool not the solution
- Integrated approach to teaching and learning
- Simplify the process
- Digital literacy and citizenship





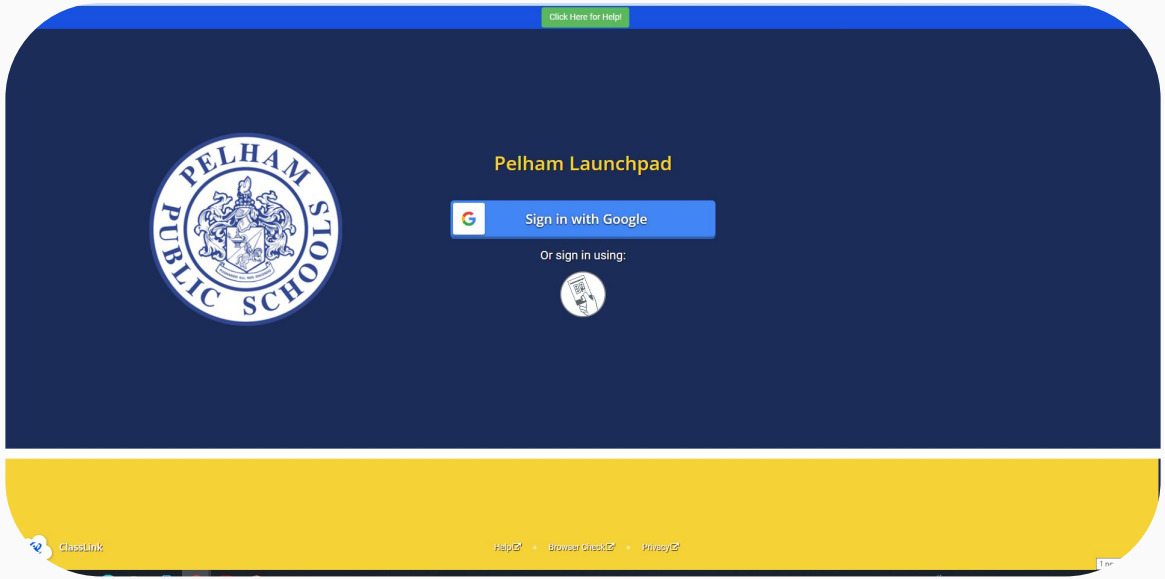
An Overview of the CSDF Standards



Every student will know how to live productively and safely in a technology dominated world. This includes understanding the essentials features of digital technologies, why and how they work, and how to communicate and create using those technologies.

Parent Handbook and Launchpad





Mathematics and English Language Arts

Breakout Math and ELA sessions…

SESSION 1	6:50 pm - 7:25 pm	
		ELA (K-2)
		Math (3-5)
SESSION 2	7:30 pm - 7:55 pm	
		ELA (3-5)
		Math (K-2)