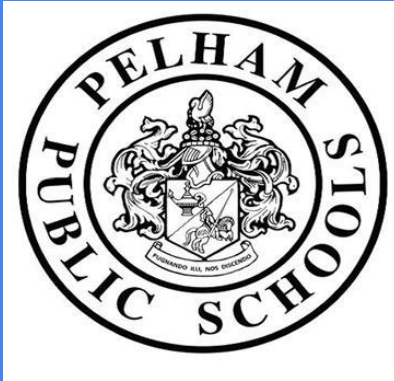


Grades 3-5 Curriculum Night

October 17, 2022



Welcome

Structure of the Evening

Overview of the New 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:

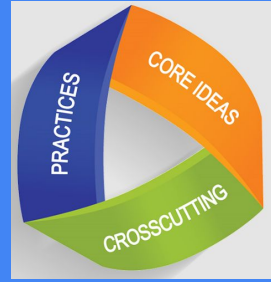
ELA

Math

Overview of Teaching and Learning (3-5)

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

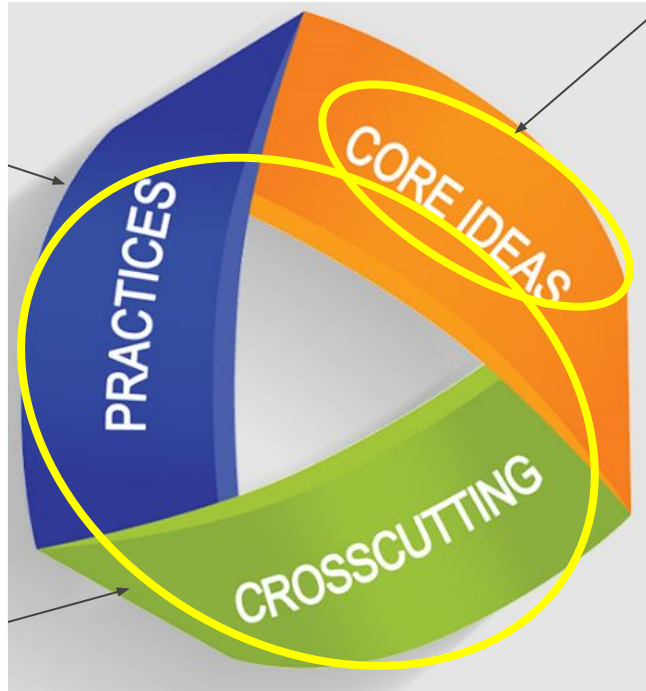
Next Generation Science Standards and New York State Science Learning Standards



- 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.

Science 21: 3-5 Units

3-5 Band of Instruction				
The Science 21 curriculum follows the progression of the NYSSLS by building on the K-2 band of instruction and advancing the students' understanding of science through the mastery of the Disciplinary Core Ideas, Science and Engineering Practices, and the Crosscutting Concepts.				
Grade	Unit 1	Unit 2	Unit 3	Unit 4
G3	Forces and Interactions	Interdependent Relationships in Ecosystems	Weather and Climate	Inheritance and Variation of Traits
G4	Structure, Function, and Information Processing	Energy	Waves: Waves and Information	Earth's Systems: Processes That Shape the Earth
G5	Space Systems: Stars and the Solar System	Structure and Properties of Matter	Earth's Systems	Matter and Energy in Organisms and Ecosystems
Engineering Design				
Engineering is infused in each unit and not treated as a separate subject area. Science 21 uses a progressive design model taught explicitly in a small mini-unit in each grade level and then explored to each unit as an application of engineering principles in the different scientific disciplines.				

Social Studies Framework



Grade 3	Geography Overview (U.S.)	China	Kenya	Brazil
Grade 4	Geography of NY Native Americans	Colonization American Revolution	Working for Change/Civil War Industrial Revolution	Immigration NY Government
Grade 5	Geography in the Western Hemisphere	Early Peoples of the Americans	Complex Civilizations European Exploration and Effects	U.S. Government My Human Rights

- ★ Identity
- ★ Cultures
- ★ Time, Continuity, and Change
- ★ Geography
- ★ Social Structures
- ★ Power, Authority, and Governance
- ★ Civic Ideals and Practices
- ★ Economic Systems
- ★ Science and Innovation
- ★ Global Connections

Social Studies Skills and Practices

1. Chronological Reasoning and Causation
2. Comparison and Contextualization
3. Geographic Reasoning (people, places, regions, environment, interactions)
4. Gathering, Using, and Interpreting Evidence
5. The Role of the Individual in Social and Political Participation
6. Civic Participation

Social Studies Practices	Grade 3	Grade 4	Grade 5
Gathering and Using Evidence	<ol style="list-style-type: none">1. Develop questions about a world community.2. Recognize and use different forms of evidence to make meaning in social studies (including sources such as art and photographs, artifacts, oral histories, maps, and graphs).3. Identify and explain creation and/or authorship, purpose, and format for evidence; where appropriate, identify point of view.4. Identify arguments of others.	<ol style="list-style-type: none">1. Develop questions about New York State, its history, geography, economics and government.2. Recognize, use, and analyze different forms of evidence used to make meaning in social studies (including sources such as art and photographs, artifacts, oral histories, maps, and graphs).3. Identify and explain creation and/or authorship, purpose, and format for evidence; where appropriate, identify point of view.4. Identify arguments of others.	<ol style="list-style-type: none">1. Develop questions to help identify evidence about topics related to the historical events occurring in the Western Hemisphere that can be answered by gathering, using, and interpreting Evidence.2. Recognize and effectively select different forms of evidence used to make meaning in social studies (including primary and secondary sources such as art and photographs, artifacts, oral histories, maps, and graphs).3. Identify evidence and explain content, authorship, purpose, and format; identify bias; explain the role of bias and potential audience with teacher support.4. Identify arguments of others.

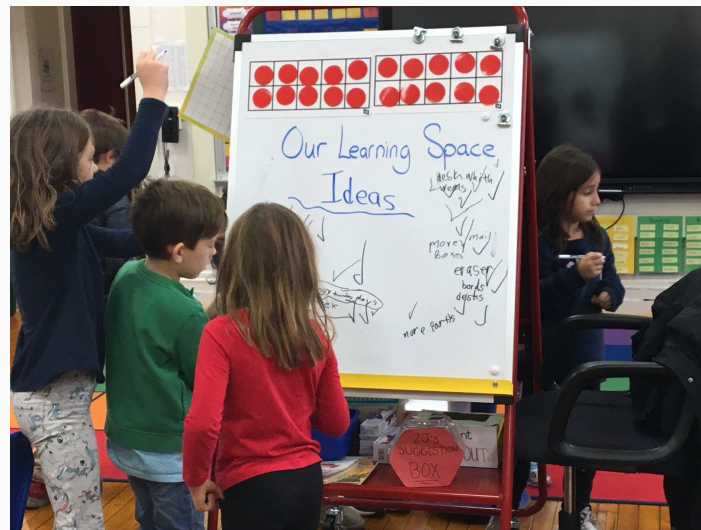
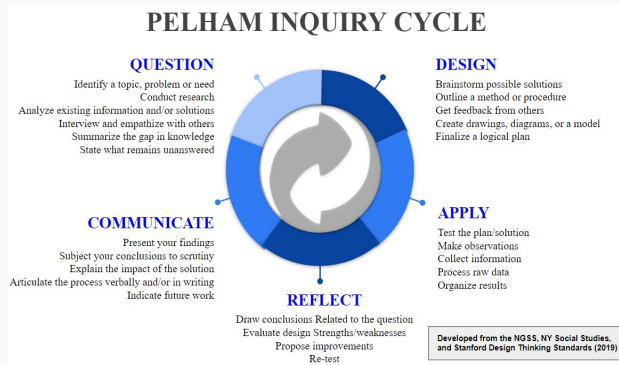
What do we have in Pelham?

- 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 - 5 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

Impacts of Computing



Computational Thinking



Networks & System Design



Cybersecurity



Digital Literacy



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

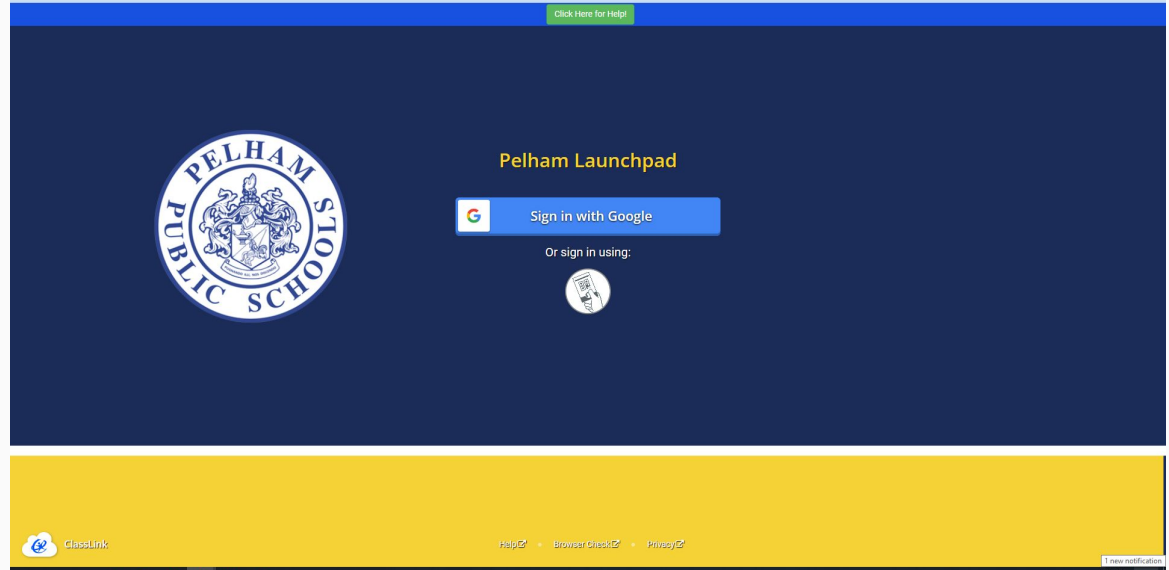
Pelham Union Free School District Parent Technology Handbook



John C. Sebalos
Director of Technology

Revised - September 2022

18 Franklin Place - Pelham, NY 10803 - 914-738-3434



Mathematics and English Language Arts

Breakout Math and ELA sessions...

7:00-7:25 Session I (Choose K-2 Math or K-2 ELA)

7:30-7:55 Session II (Choose K-2 Math or K-2 ELA)