# Office of Curriculum, Instruction, & Assessment Update to School Committee February 12, 2020

Dr. Ian Kelly, Assistant Superintendent

Dr. Linda Kobierski, PK-8 STEM Curriculum Coordinator

Dr. Heather L. B. Smith, PK-8 Humanities Curriculum Coordinator

# The Fairbanks House



- History
- Charm

• Character

Value

• Structure

Investment

# Dedham Public Schools



- History
- Charm

Character

Value

• Structure

• Investment

What if the Fairbanks family were living on East St. today?

And what if they wanted to renovate and really bring the place into the 21st Century?

Historical Commission

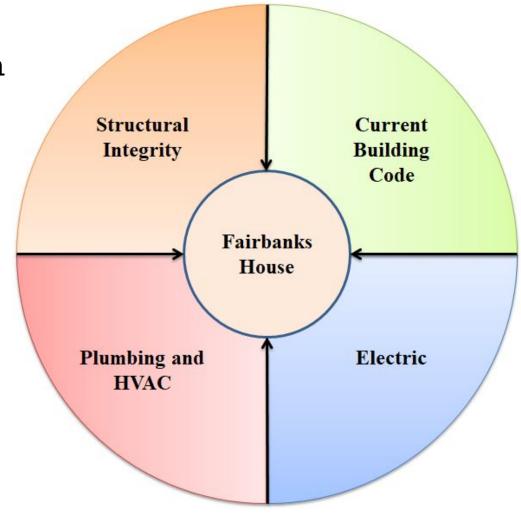
Building Inspector

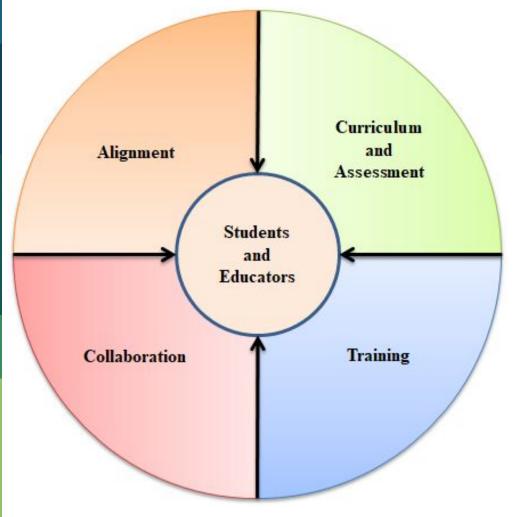
• Structural Engineer

Architect

General Contractor

Subcontractors





• DPS Professionals

Special Education Audit

• ELA Audit

• ELL Audit

• Research

• Performance Data

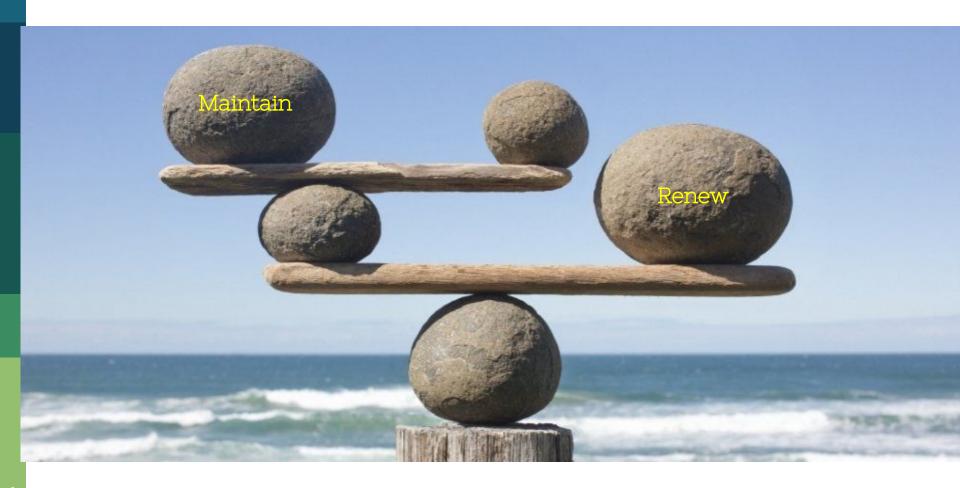


# Strategic Vision

Dedham Public Schools

# **District 20/20 Vision**

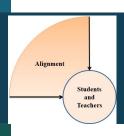
- 1. Invest in human capital to design and grow individual educator capacity throughout the district.
- 2. Create integrated organizational structures/systems to ensure high quality instruction and consistent learning expectations/outcomes.
- 3. Expand use of technology to streamline educator and student feedback for improved performance.





# Strategic Actions and Progress

What did we do to achieve our goals? What do our classrooms look and sound like?



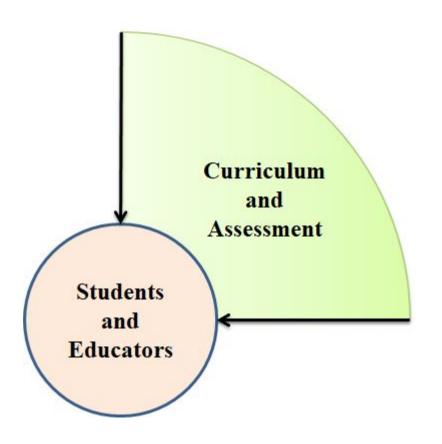
# **Alignment**

- 1. Strategic Planning
- 2. Human Resources

3. Systems and Structures

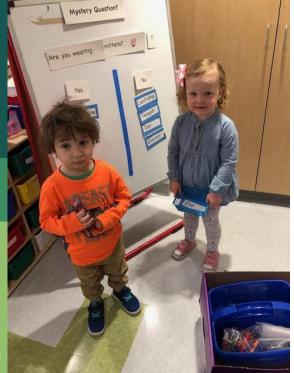
# Time on Learning

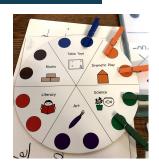






# Tools of the Mind (PK)





**Play Centers** 



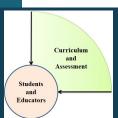
**Play Plans** 



Make -Believe Play



**Graphics Practice** 



# **Fundations PK-2**













# Reading Units of Study K-8 New Reading Assessments



Mini-Lessons in Reading & Writing, K-8



Anchor Charts for Reading & Writing, K-8



Conferring with Readers & Writers, K-8



Small Group Instruction, K-8



Reading "Just Right" Books



Engagement & Student Talk



# Reading Units of Study K-8 New Reading Assessments



Coaches Model Conferring & Reading & Writing Workshop



Coaches Model Small Group in Reading & Writing Workshop





## Writing Units of Study K-8 New Writing Assessments K-8



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				ETTERCTURE					
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## Learning Progressions for Writing, K-8

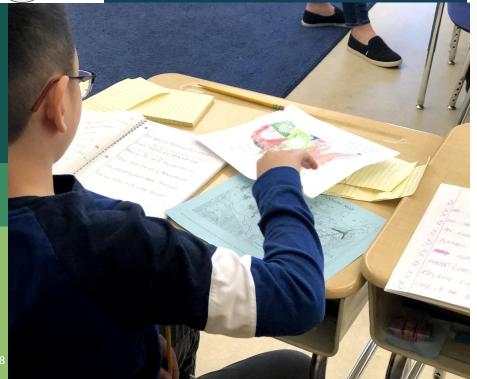




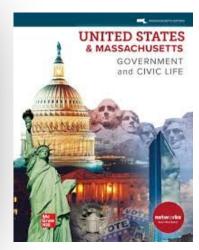
Student Work Samples in Grades K and 5

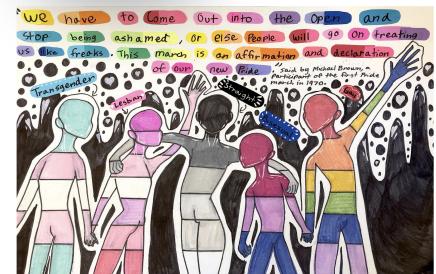


Integrated Units of Study K-5 Alignment with New Social Sciences & History Frameworks, Gr. 6-8



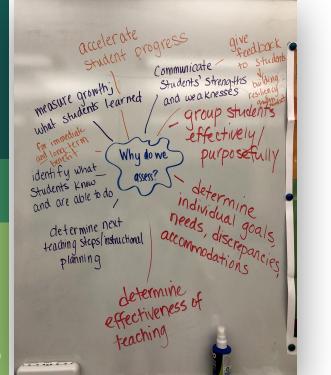




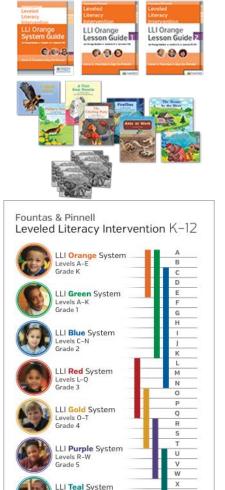




# Universal Assessments in Numeracy & Literacy K-8 Leveled Literacy Intervention K-8

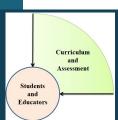






Levels U-Z

Z



# Do the Math & Math Challenge







### News and Notes from Math Enrichment and Challenge Week of 11/20/19- 11/27/19

### Joke of the week:

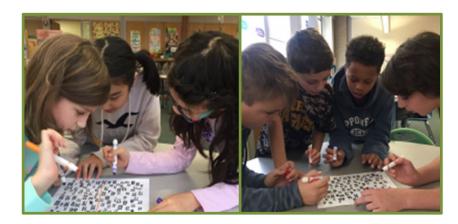
Why do plants hate math?

It gives them square roots!

This week we continued our focus on whole numbers! Our focus shifted slightly to a specific type of whole number - prime numbers. After learning about the ancient mathematician Eratosthenes, we learned his strategy for finding prime numbers using a 100 chart - The Sieve of Eratosthenes. After we identified the prime numbers up to 100 (Did you know that there are 25 of them?), we also played a board game called 97 Prime.

If you are curious, I have linked below a couple of pages that talk about prime numbers and their history. There is an interactive Sieve of Eratosthenes and a Prime Number Generator that you can explore. These pages also go into more complicated aspects of prime numbers if you want a challenge!

https://mathigon.org/course/divisibility/primes https://mathigon.org/course/divisibility/distribution-of-primes





# **Building Blocks of Science K-5**

Grade	Sept -Nov	Dec -March	March-June
K	Push Pull Go	Weather & Sky	Living Things & Their Needs
1	Light & Sound Waves	Sky Watchers	Exploring Organisms
2	Matter	Earth Materials	Ecosystem Diversity
3	Forces & Interactions	Weather & Climate Patterns	Life in Ecosystems
4	Energy Works	Changing Earth	Plant & Animal Structures
5	Structure & Properties of Matter	Earth & Space Systems	Matter & Energy in Ecosystems











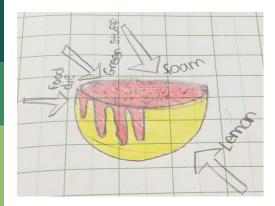


Figuring Out Phenomena Using the Science Practices

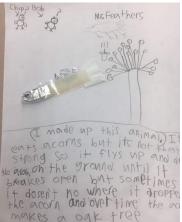


# **Building Blocks of Science K-5**



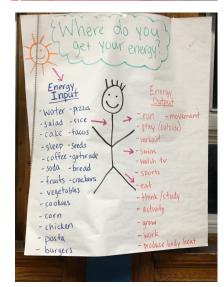


**Science Notebooks** 





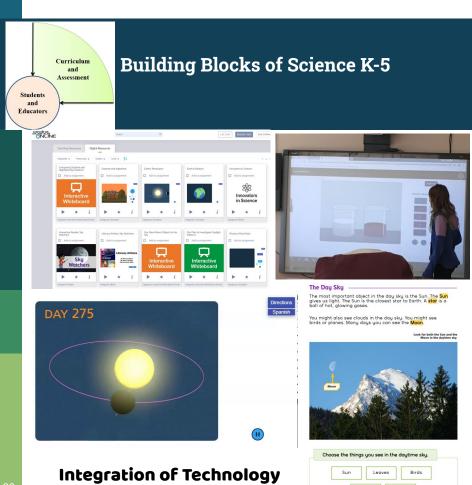








Collaborative Learning &
Science Talk













**Side-by-Side Coaching Support** 



# Integrated Sciences & Tech/Engineering 6-8 Science & Engineering Practices

Earth and Space Science	Physical Science	Life Science
ESS1: Earth's Place in the Universe Grade 6 Grade 8	PS1: Matter and Its Interactions Grade 6 Grade 8	LS1: From Molecules to Organisms: Structures and Processes Grade 6 Grade 7 Grade 8
ESS2: Earth's Systems Grade 6 Grade 7 Grade 8	PS2: Motion and Stability: Forces and Interactions Grade 6 Grade 7 Grade 8	LS2: Ecosystems: Interactions, Energy, and Dynamics Grade 7
ESS3: Earth and Human Activity Grade 7 Grade 8	PS3: Energy Grade 7	LS3: Heredity: Inheritance and Variation of Traits Grade 8
	PS4: Waves and Their Applications in Technologies for Information Transfer Grade 6	LS4: Biological Evolution: Unity and Diversity  Grade 6  Grade 8

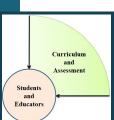




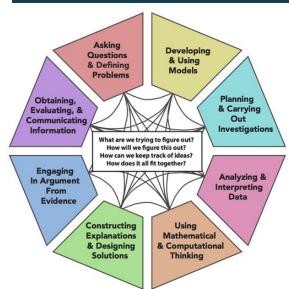








# Integrated Sciences & Tech/Engineering 6-8 Science & Engineering Practices



Incorporation of Science & Engineering Practices throughout Curriculum

### Breaking News: Cells on Mars!!



The Mars rover Curiosity has made a very "curious" discovery, NASA states that Curiosity has sent back photos of what are unmistakably, living cells!

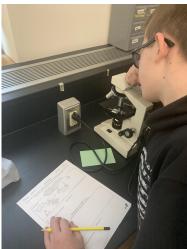
Here are the cells photographed at two magnifications

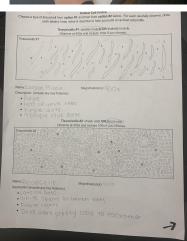


400x

In preliminary studies, astrobiologists have determined that these cells must have come from a Martian organism that is either a plant or animal. It is your job to use a microscope to collect evidence about plant and animal cells, and then use this evidence to make your own claim about "What are these cells from Mars?"

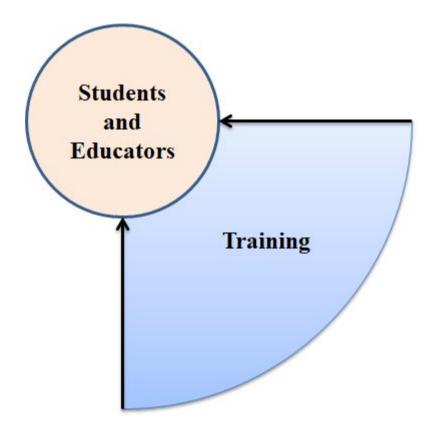






# Professional Training & Support for all New Curriculum







# **Principles**

• Job Embedded

Tailored

• Learning Together

• Relevant

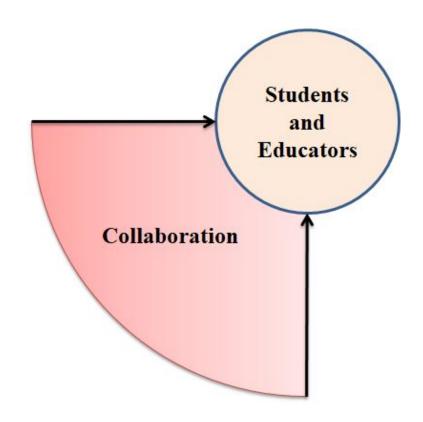
Focused

Sustained

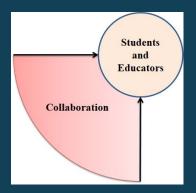


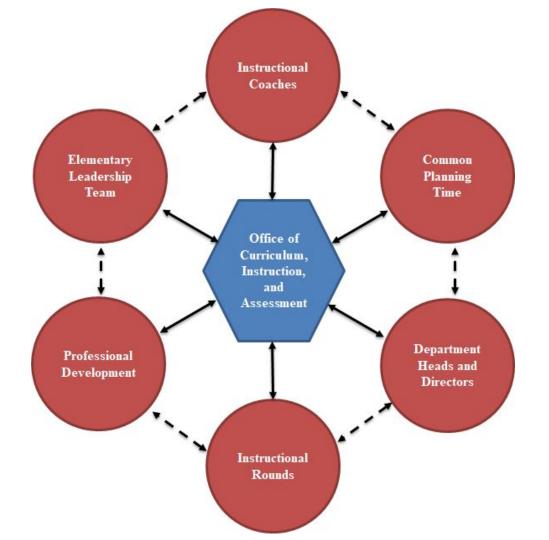
# **Team Structures**





# Integrated Systems for Collaboration







# **Next Steps**

Where do we go from here?

# Where to?

