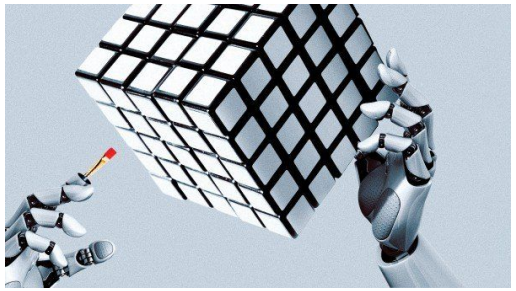
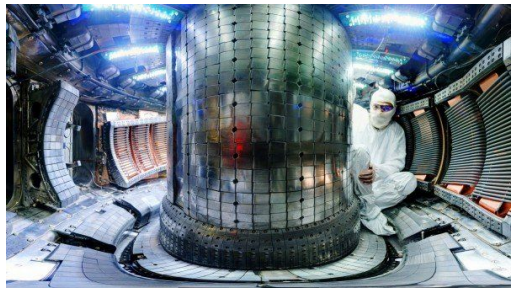
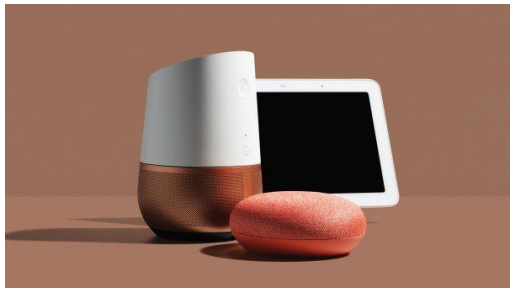
“Dedham Public Schools is a leader in Massachusetts in deployment and integration of technology to support teaching and Learning”

“Be Bolder”

Technology Update, February 27, 2020

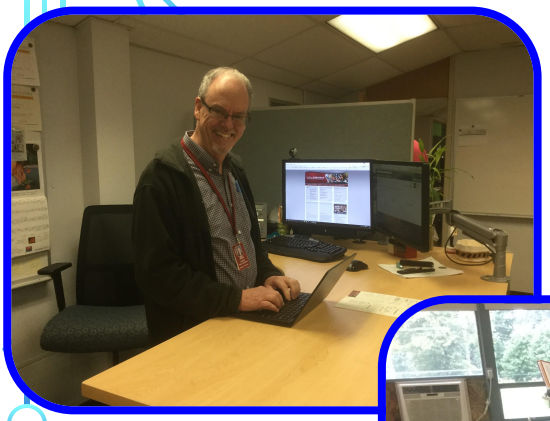
Don G. Langenhorst, Ed.D
Technology Director
Dedham Public Schools > Educational Technology > Technology Plan FY20 - FY22

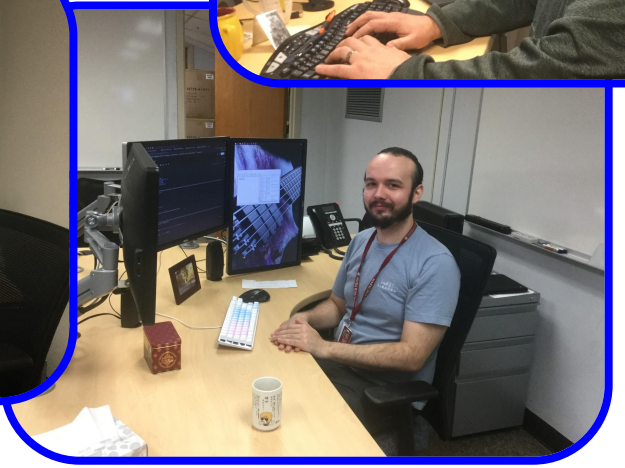





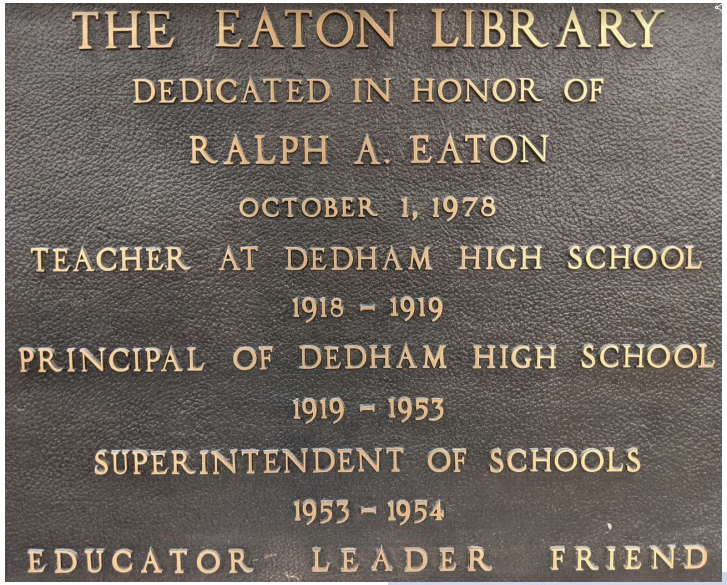
10 Breakthrough Technologies 2019

Technology Team





Honoree - Grandson of ...



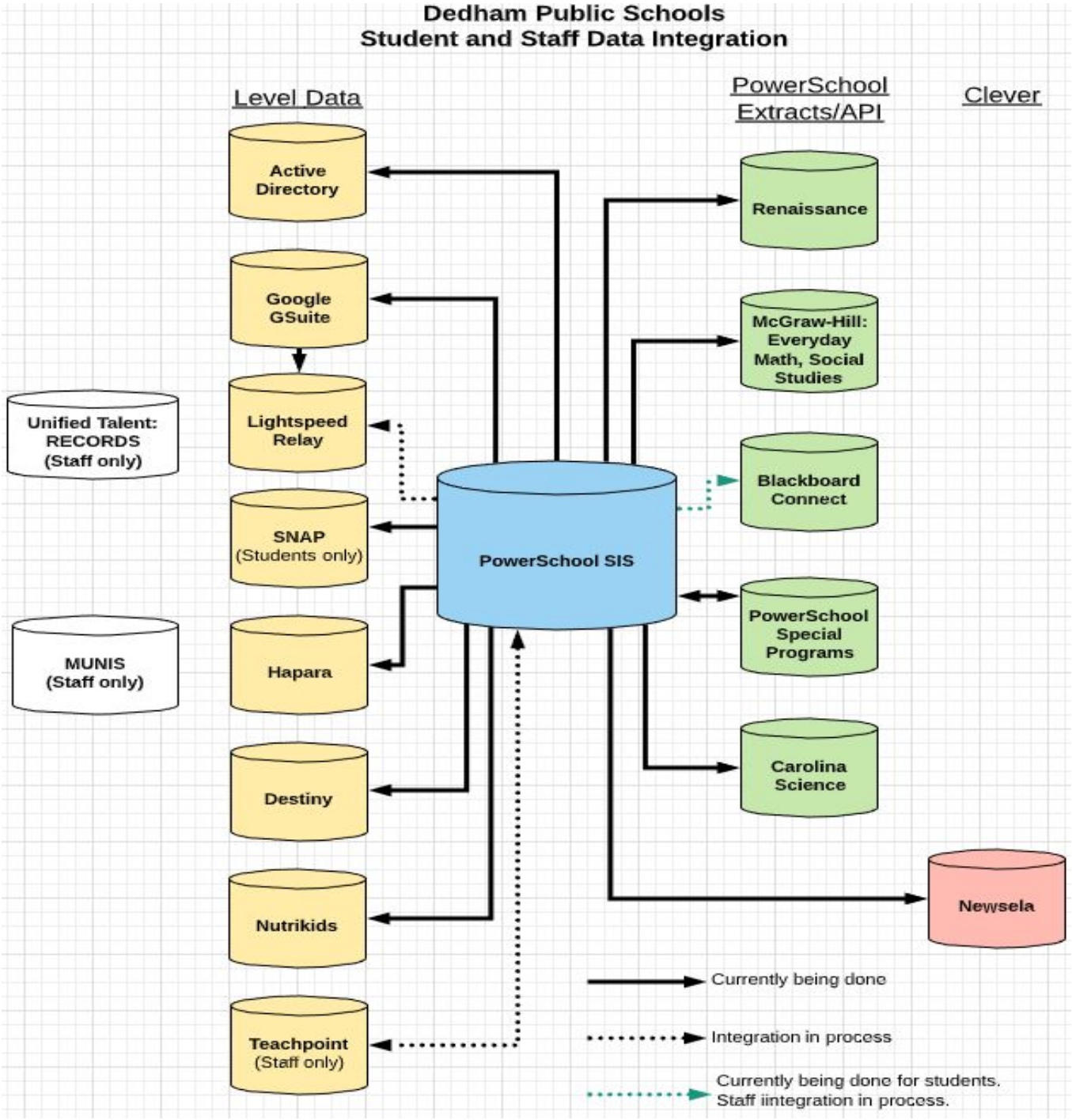
Paul.McMurtry@mahouse.gov

STATE HOUSE
24 Beacon St.
Room 171
Boston, MA, 02133

Phone: (617) 722-2015
Fax: 6177222160

Data Integration

Best Services Databases Integrated



Dedham Savings Donation

250 Cases for
incoming
6th Graders

$4,875

Dedham Savings
Here for the journey.

Technology Plan FY20 - FY22

Technology Integration Assessment and Plan

Ongoing Integration Efforts

Integration of SEL needs into DLCS Standards & align w/ Curriculum

Trusted Learning Environment

Rich-Technology Device Setting

Robust Safe and Secure Network and Technology Support

Data Integration and Electronic Records

MassCUE

Educate, Connect, Inspire

Seven Teams of Presenters:

- Technology Transformation
- STEM/STEAM/STREAM
- Data Privacy - Tale of Two Districts
- Engaging and Innovative Teaching Strategies
- Technology Supported Project Based Learning
- Virtual Reality in the Classroom
- Teacher as Change Agents - Teacher Coaches

Student Groups with Teacher & Parent Chaperones

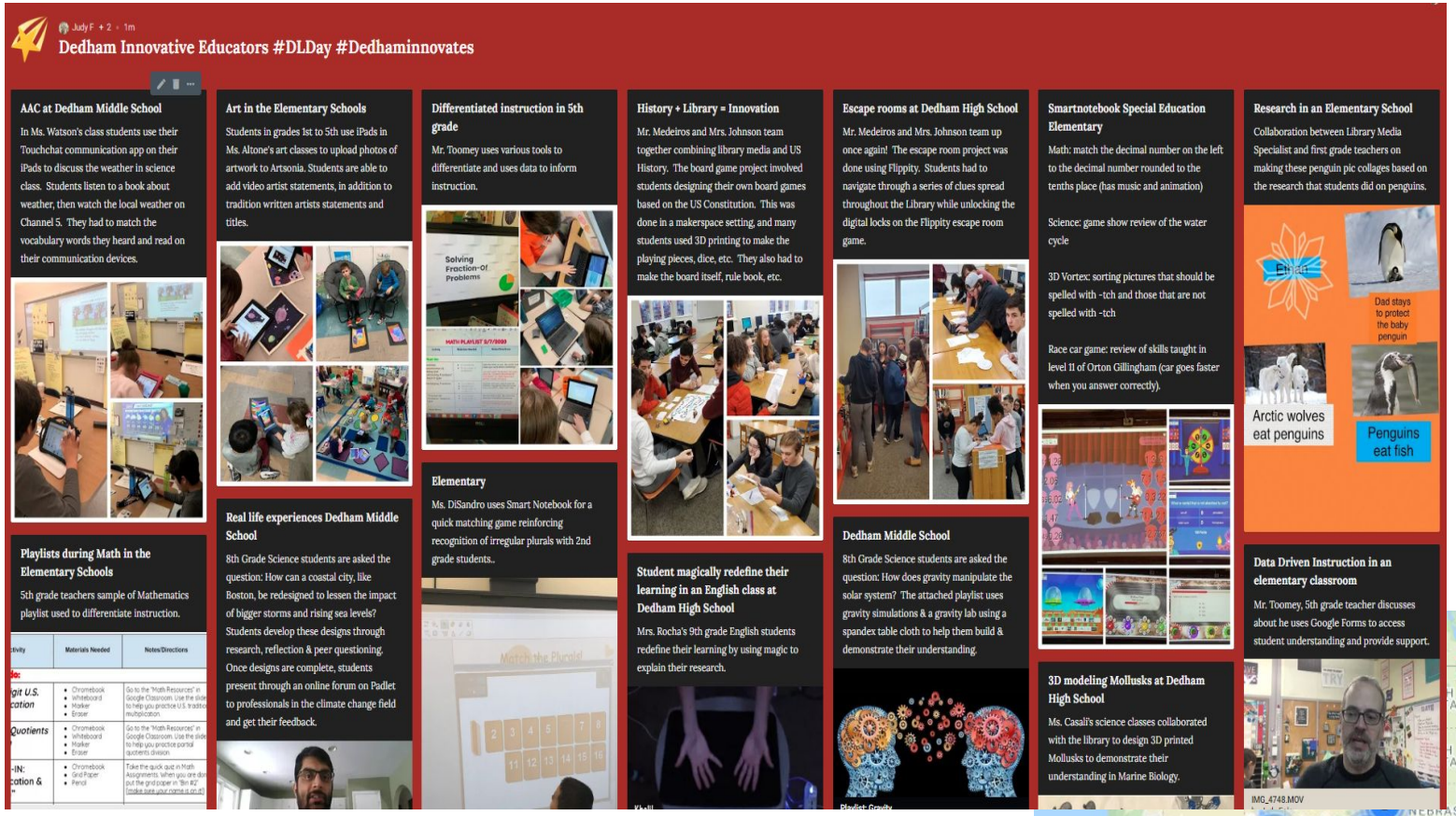
- EL Students - NPR Podcast Challenge
- MS Students - Environmental impact / Global Warming

FUSE Cohort 1

FUSE Cohort 2

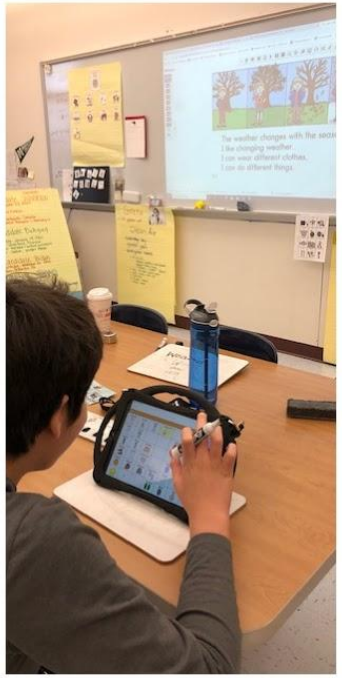
[Ken Toomey's RI speech]

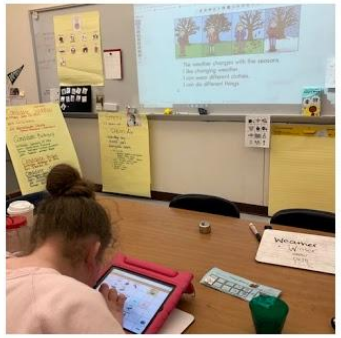
Digital Learning Day Tomorrow



Assistive Technology

Augmented Alternative Communication (AAC)
LAMP
TouchChat
Proloque2Go

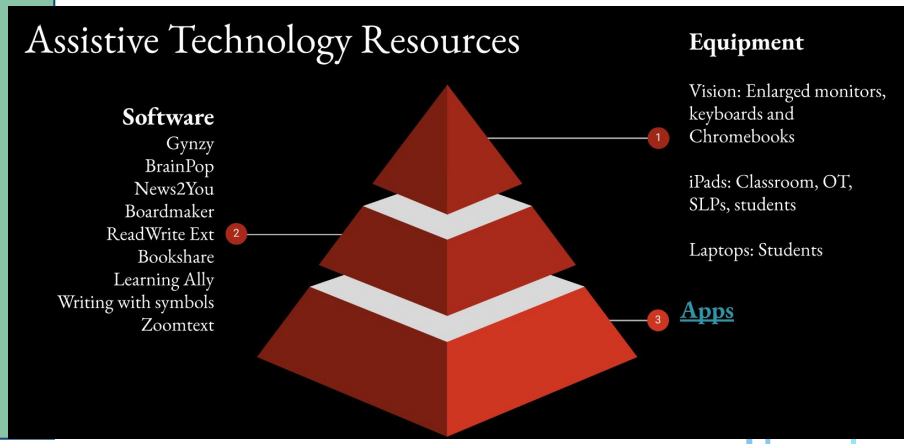




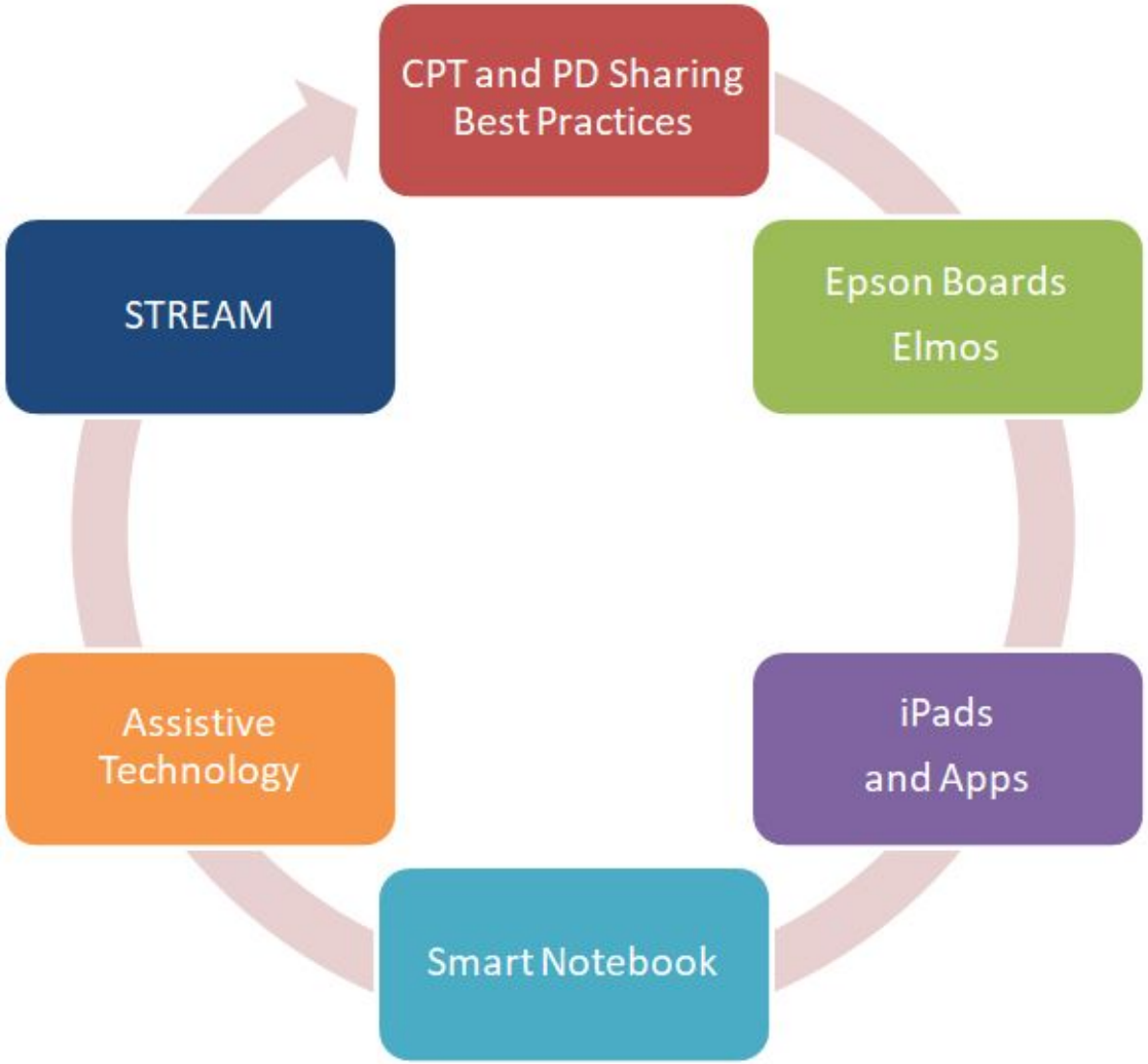
Professional Development
December 18, 2019
The Special Education teachers from the ECEC gathered together to explore topics that focused on iPads that are used in every classroom at the ECEC and as Augmented Alternative Communication (AAC) devices with students. The topic focused on the ability to adjust privacy settings, based on use, guided access and video storage.

November 5, 2019
26 Elementary Special Educators attended a ½ day personalized professional development where they could choose to learn about Lexia, differentiated instruction, Read/Write extension, Bookshare and iPad apps.

Special Ed Team Leaders Checking out Google Classes



ECEC Work Opening through Now



[Technology Resources Page]

Spotlight Grades 3- 5 Integration Work

carolina science ONLINE

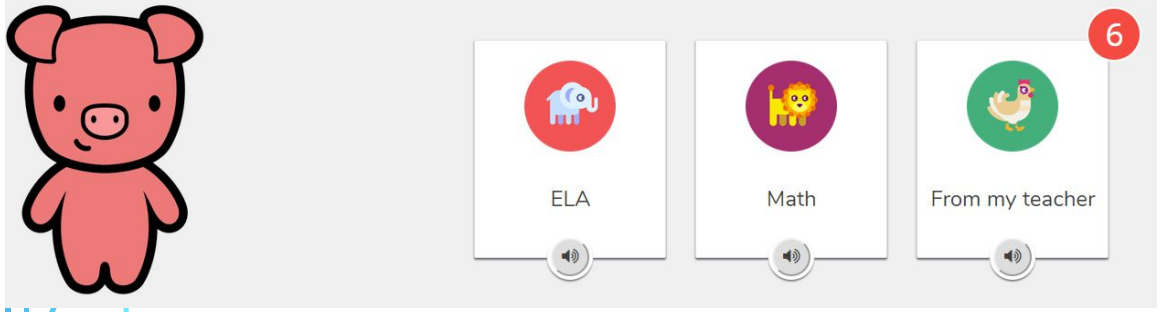
Home | Building Blocks of Science 3D | Building Blocks of Science

41
Educator accounts

252
Student accounts

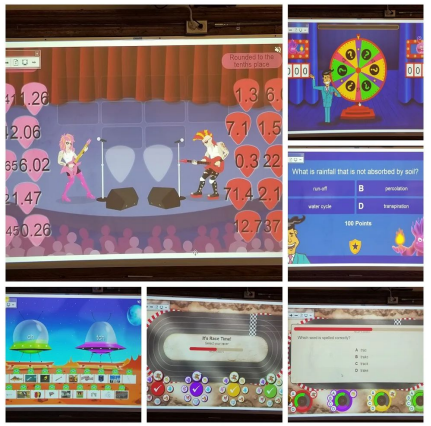
125 Students Watched a movie
92 Students Took a quiz
1 Students Made a concept map
33 Students Played a game

Freckle by Renaissance



SMART Notebook

Mrs. Hume
Special Education
Oakdale Elementary



Google Classroom

Mrs. Merritt
3rd Grade
Avery Elementary
Journaling using Chromebooks

Technology Plan FY20 - FY22

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Integration of SEL needs into DLCS Standards & align w/ Curriculum

Trusted Learning Environment

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Data Integration and Electronic Records

Social and Emotional Wellness & Technology

Toward appropriate, purposeful and mindful use

DIGITAL CITIZENSHIP CURRICULUM	GRADE 3						GRADE 4						GRADE 5					
CASEL: Core SEL Competencies Grades 3-5	Rings of Responsibility	Password Power-Up	This Is Me	Our Digital Citizenship Pledge	The Power of Words	Is Seeing Believing?	My Media Choices	Private and Personal Information	Our Online Tracks	Keeping Games Fun and Friendly	Super Digital Citizen	A Creator's Rights and Responsibilities	Finding My Media Balance	You Won't Believe This	Beyond Gender Stereotypes	Digital Friendships	What's Cyberbullying?	Reading News Online
1. Self-awareness: The ability to accurately recognize one's own emotions, thoughts, and values and how they influence behavior. The ability to accurately assess one's strengths and limitations, with a well-grounded sense of confidence, optimism, and a "growth mindset."																		
a. Identify emotions			•		•		•	•					•	•	•	•	•	•
b. Accurate self-perception			•		•		•						•					
c. Recognize strengths											•							
d. Self-confidence											•							
e. Self-efficacy											•							
2. Self-management: The ability to successfully regulate one's emotions, thoughts, and behaviors in different situations — effectively managing stress, controlling impulses, and motivating oneself. The ability to set and work toward personal and academic goals.																		
a. Impulse control	•				•				•			•						
b. Stress management																	•	
c. Self-discipline	•				•				•			•						
d. Self-motivation													•					
e. Goal-setting													•					
f. Organizational skills													•					
3. Social Awareness: The ability to take the perspective of and empathize with others, including those from diverse backgrounds and cultures. The ability to understand social and ethical norms for behavior and to recognize family, school, and community resources and supports.																		
a. Perspective-taking			•		•					•	•				•		•	
b. Empathy					•						•				•		•	
c. Appreciating diversity											•				•			
d. Respect for others	•			•	•				•	•	•				•		•	

[Town-wide PTO Presentation]

[Resource Page]

Trusted Learning Environment

Policies

Student Data Privacy

Network Closets

Phishing Training

Password Training

1

Leadership Practice: manage and collaborate with stakeholders regarding the use and governance of student data to inform instruction

2

Business Practice: establish acquisition vetting processes and contracts that, at a minimum, address applicable compliance laws while supporting innovation

3

Data Security Practice: perform regular audits of data privacy and security practices and publicly detail these measures

4

Professional Development Practice: require school staff to conduct privacy and security training and offer the instruction to all stakeholders

5

Classroom Practice: Implement educational procedures and processes to ensure transparency while advancing curricular goals

Student Data Privacy Consortium: National/International Organization for Student Data Privacy

[Dedham's Educational Technology Student Data Privacy]

Info on SDPA from
[Town-wide PTO Presentation]

Privacy – By The Numbers...

the Student Data Privacy Consortium (SDPC)

26

State-wide Alliances

Tools for:
Privacy Contract Building
Application Inventory & Searchable Database
Application Contract Management
Global Education Privacy Standard (GEPS)

'Tactical' Privacy Information
– contract to implementation

32*million*

Students supported by Tools

8700+

School Districts represented

4

Countries Collaborating on Privacy Issues

5332

Signed Vendor Agreements

2603

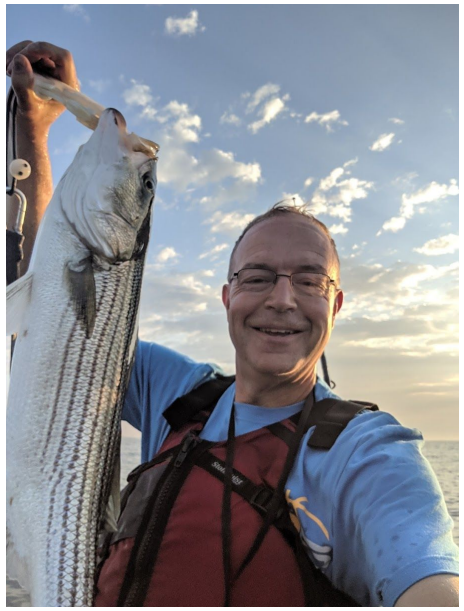
Applications in Database

4108

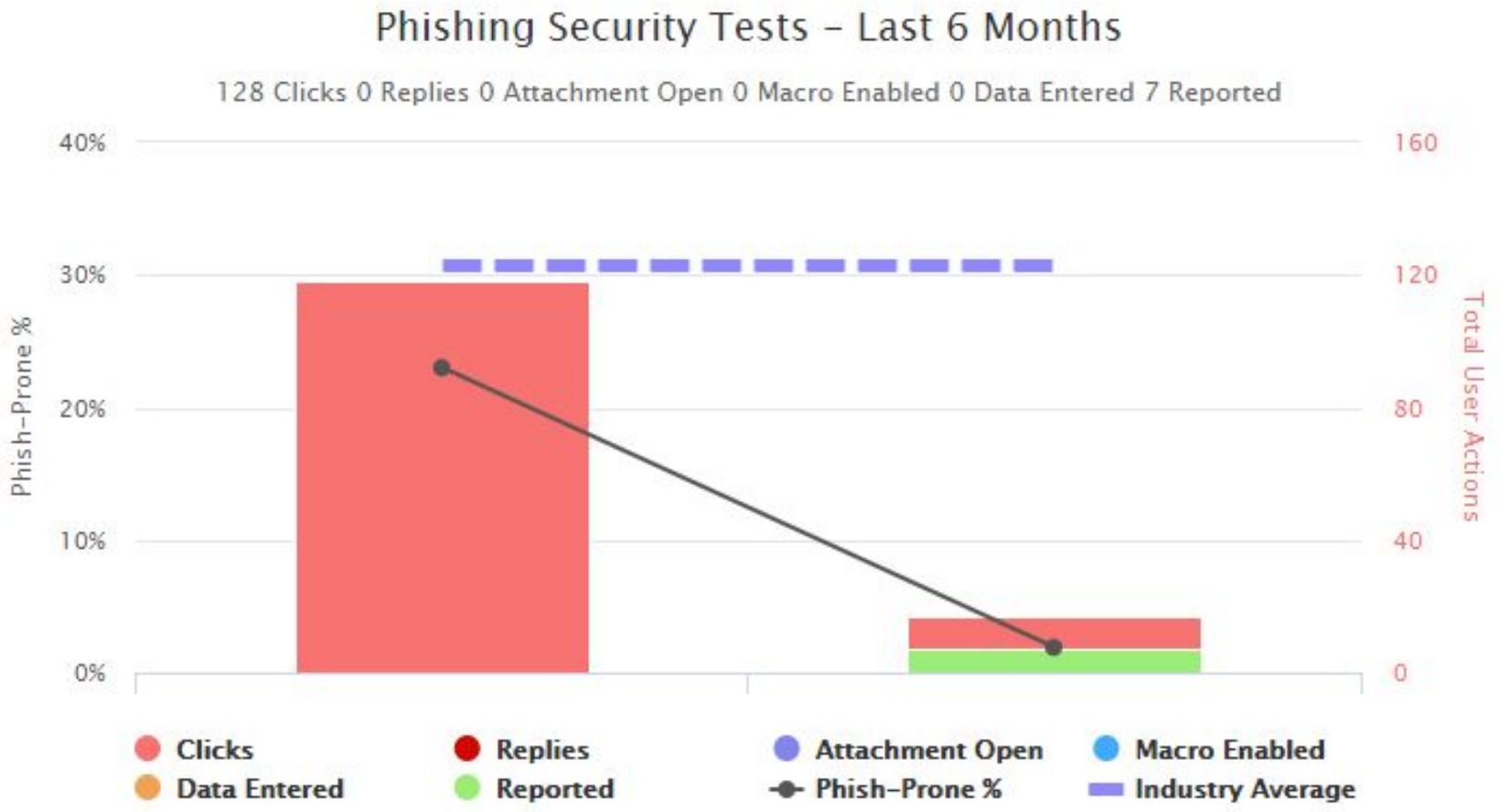
Signed "Piggyback" Exhibit E

Setting common expectations between Providers and their Customers through interoperability and privacy

Phishing Training



Industry Benchmark Data	
YOUR LAST PHISH-PRONE%	1.9%
INDUSTRY PHISH-PRONE%	30.7%



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Education SuperHighway Articles

[State Stories]

[Fiber Story]

Massachusetts: Digital Tools Help Nonverbal Preschool Students

Dedham Public School District

Photo: Dedham School District

In Dedham, Massachusetts public schools, students use tablets until the thir grade, and then transition to laptops and a full 1:1 program. Teachers have access to a wealth of subscription-based software, appropriate educational websites, and other real-time interactive tools that support the curriculum.

The district also invests heavily in professional development, sending teachers to conferences and Edcamps and encouraging the sharing of best practices on social media – all in an effort to improve student learning. "We want to provide teachers what they need and kids what they need," says Dr. Don Langenhorst, the district's technology director. "And everyone is different, so our job is to provide consistency with differentiation of support

For some nonverbal preschool students with special needs, digital learning takes the form of augmentative and alternative communication (AAC) apps, which provide visual and auditory input and can help improve verbal languag skills. Teachers model how to use the apps on tablets, showing students how to touch symbols to communicate their basic needs and wants. The district even allows these students to take the tablets home with them. Thanks to these digital learning tools, some previously nonverbal students have become verbal communicators – and no longer need the tablets.

Source: EducationSuperHighway

Photo Credit: Dedham Public School

SUCCESS STORIES

3 Things Dedham Public Schools Can Now Do With a Fiber Connection

Yeah, but what can we do better?

Technology Integration
Data Gathering and Analysis

Approximately 400 classroom visits (October - January)