

# **Plainedge Public Schools 2024-2025 Budget Presentation Instructional and Administrative Technology**

**Presentation to the Board of Education**

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Deputy Superintendent**

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# Instructional Technology



- ▶ The Plainedge School District via its Technology Roadmap looks to facilitate student learning and standards for all learners as outlined in the International Society for Technology Educators (ISTE) National Education Technology Standards (NETS) and The Partnership for 21st Century Learning. As such the Plainedge School District's goal is to foster the application of these standards via technology integration.

- ▶ Core Beliefs for Educational Technology

1. Engagement and learning increase with the use of technology.
2. Technology supports differentiation of learning.
3. Active participation and contributions to the learning process increase with the use of technology.
4. Project and inquiry based learning experiences are enhanced with the use of technology.
5. Technology skills are best learned in context through project and inquiry based teaming.
6. Technology supports broader collaboration opportunities both locally and globally.
7. 21st century communication and collaboration requires fluency in the use of technology.



# Instructional Technology

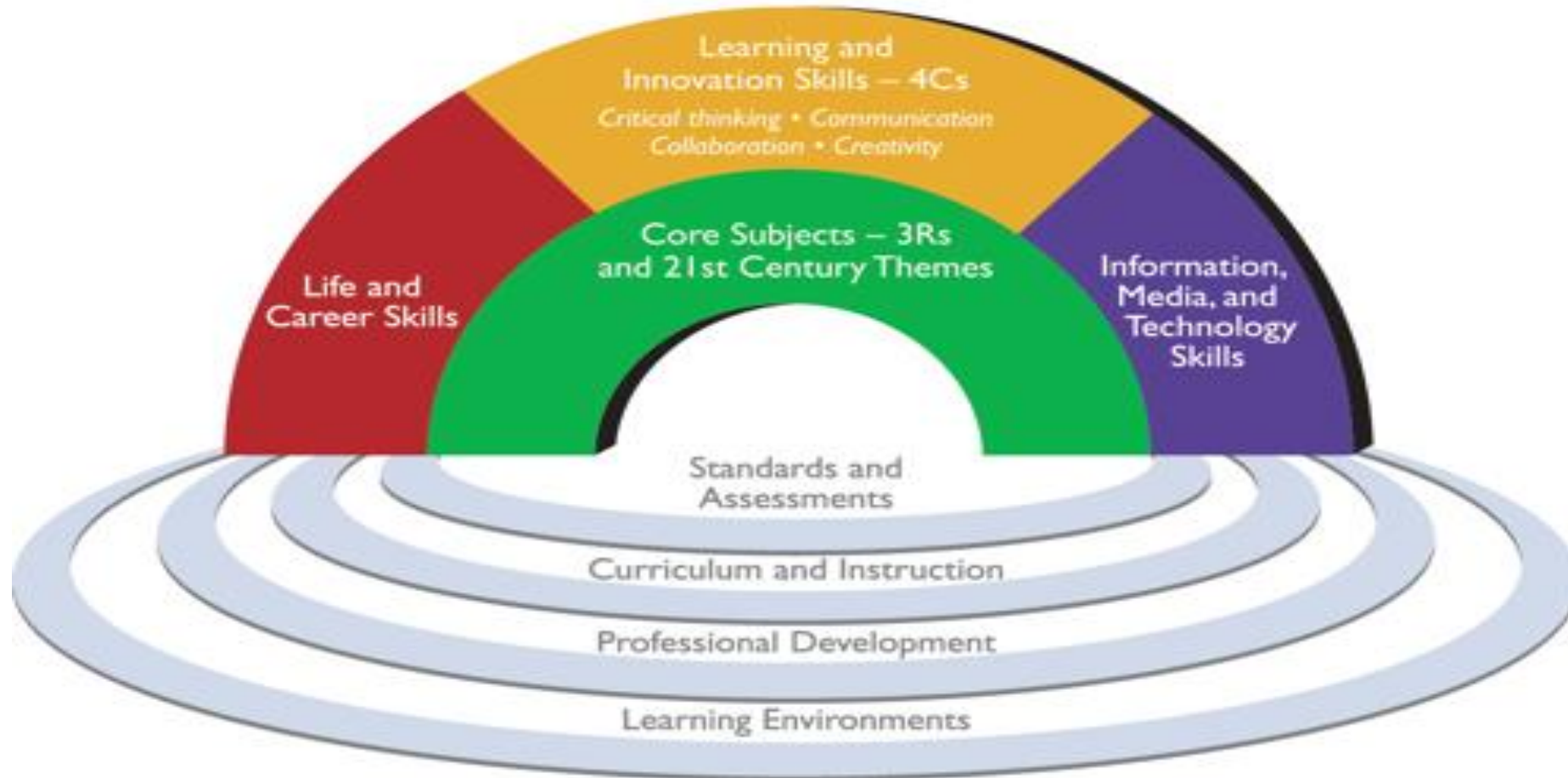
- ▶ “Our students have changed radically. Today’s students are no longer the people our education system was designed to teach” (Prensky, 2002)
- ▶ Digital Natives are just wired differently and:
  - are surrounded by digital content;
  - are used to receiving information really fast;
  - prefer graphical representation before text;
  - function best when connected to their network of resources and people;
  - see content as something malleable - something they can reshape in new and interesting ways;
  - see their technology as an extension of their brain;
  - can’t imagine a world without the technology

*Today’s students want mediated immersion (Oblinger and Oblinger, 2005). They want blended learning environments combining online digital content and interactive experiences.*



# 21<sup>st</sup> Century Learning

## 21st Century Student Outcomes and Support Systems

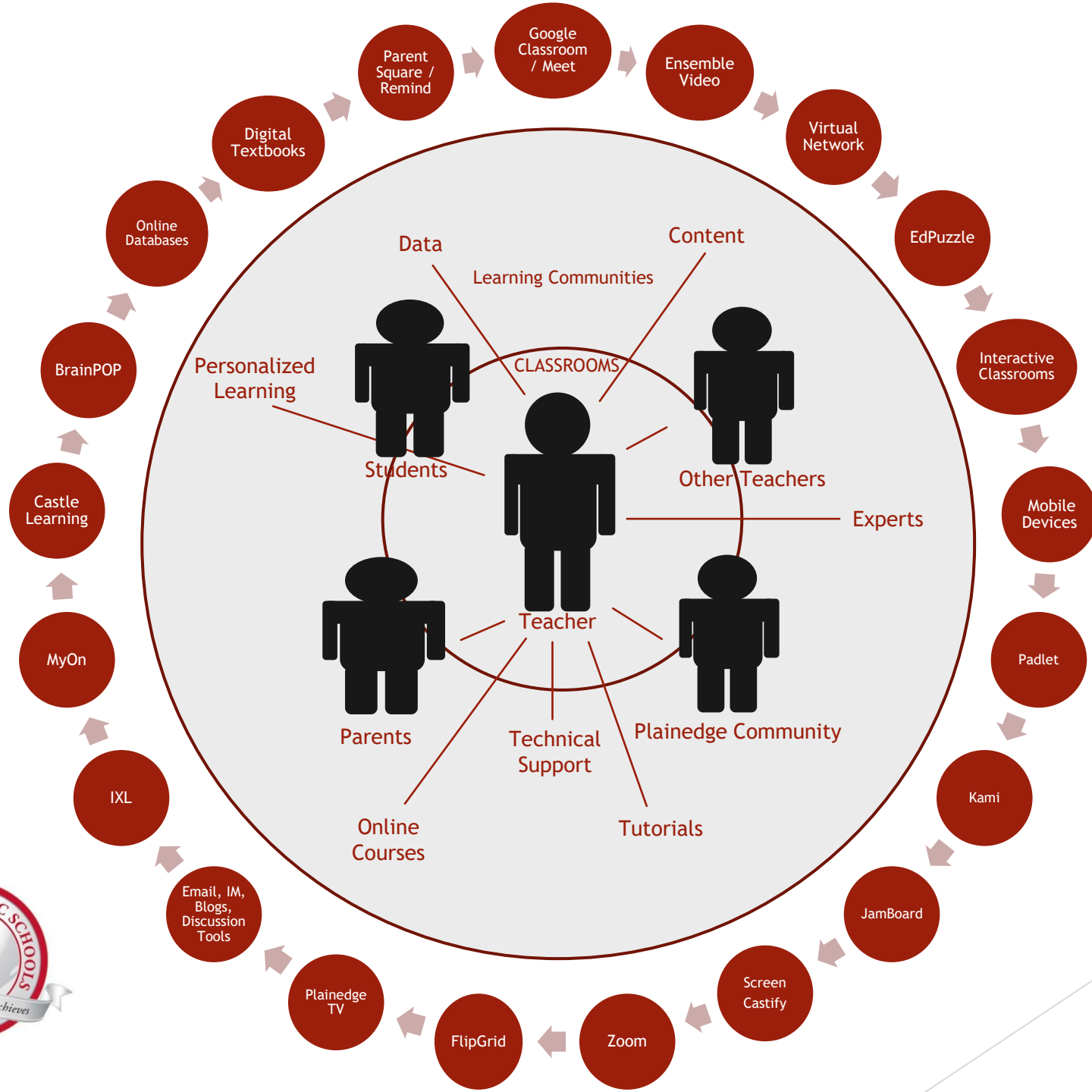


# District Technology Goals

- Goal #1:** *Enhance access to technology 24/7 (mobile technologies)*
- Goal #2:** *Provide interactive multimedia capabilities in classrooms*
- Goal #3:** *Enhance technology integration & professional development*
- Goal #4:** *Provide access to electronic resources for research & information fluency*
- Goal #5:** *Transform the end user experience via virtualization*
- Goal #6:** *Curriculum integration and flexible learning paths*
- Goal #7:** *Provide personalized & blended learning environments*
- Goal #8:** *Use technology tools to enhance critical thinking, problem solving, and decision making*
- Goal #9:** *Use technology tools to enhance communication and collaboration*
- Goal #10:** *Use technology tools to enhance creativity and innovation*
- Goal #11:** *Provide students the technology tools and proficiencies to be college and career ready*
- Goal #12:** *Provide teachers and staff the tools necessary to effectively teach 21<sup>st</sup> century learners.*



# District Technology Goals



# OUR K-12 1:1 MOBILE COMPUTING PROGRAM

WHAT DO STUDENTS HAVE NOW?



All Staff HP Chromebooks

## Devices by Grade Level

- Grade K - Dell Chromebook 3110
- Grade 1 - Mix of HP & Dell\*
- Grade 2 - Dell Chromebook 3110
- Grade 3 - Dell Chromebook 3110
- Grade 4 - Dell Chromebook 3110
- Grade 5 - Dell Chromebook 3100
- Grade 6 - Dell Chromebook 3100
- Grade 7 - Dell Chromebook 3100
- Grade 8 - Dell Chromebook 3110
- Grade 9 - Dell Chromebook 3100
- Grade 10 - Dell Chromebook 3100
- Grade 11 - HP Non-Touch Chromebook\*
- Grade 12 - Dell Chromebook (EOL)\*

Pre-K iPads in Every Classroom

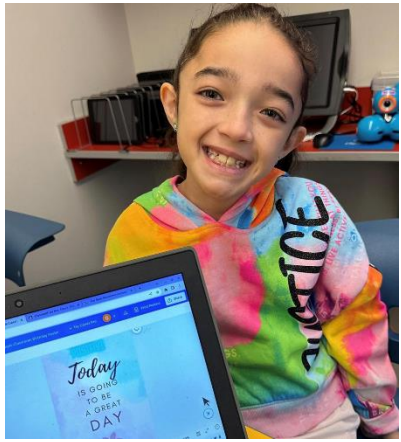
\* Will replace in 2024-2025

OVER 3000+ DEVICES



# Technology in Plainedge

Expand and Support  
District's STEAM & Robotics Initiatives  
& Interactive Classrooms



- ▶ Augmented Reality
- ▶ Robotics
- ▶ 3D Printers
- ▶ TV Studio / Green Screen
- ▶ Digital Telescope
- ▶ iPad Pros
- ▶ Chromebooks
- ▶ Drones
- ▶ Document Cameras
- ▶ Poly Video Conferencing Units





# Technology in Plainedge Portable Planetarium







# Technology in Plainedge

## Elementary STEAM Drone Instruction

\* New Computer Science Program K-12 \*



- ▶ Block Coding
- ▶ Drone Challenges
- ▶ Teamwork





# Technology in Plainedge

## Television, Media, and Sports-Media Production



You can now follow PlainedgeTV on...



Head to [youtube.com/@plainedgetv](https://youtube.com/@plainedgetv)



- ▶ Football Game Livestreams
- ▶ Concerts, Plays, Award Ceremony Livestreams
- ▶ 50+ events per year
- ▶ Best Buddies Videos
- ▶ Unified/ Challenger Sports Videos
- ▶ Santa Video Fundraiser
- ▶ GSA 'Spread the Love' Promotional Video
- ▶ Project Linus Highlight Video

- ▶ Honor Society Inductions
- ▶ Filming of HS Senior Games
- ▶ Veteran's Appreciation Day Highlight Video
- ▶ Law Enforcement Appreciation Day Highlight Video
- ▶ Filming HS Fall Play
- ▶ 10+ Concerts
- ▶ 10+ Athletic Stadium Events

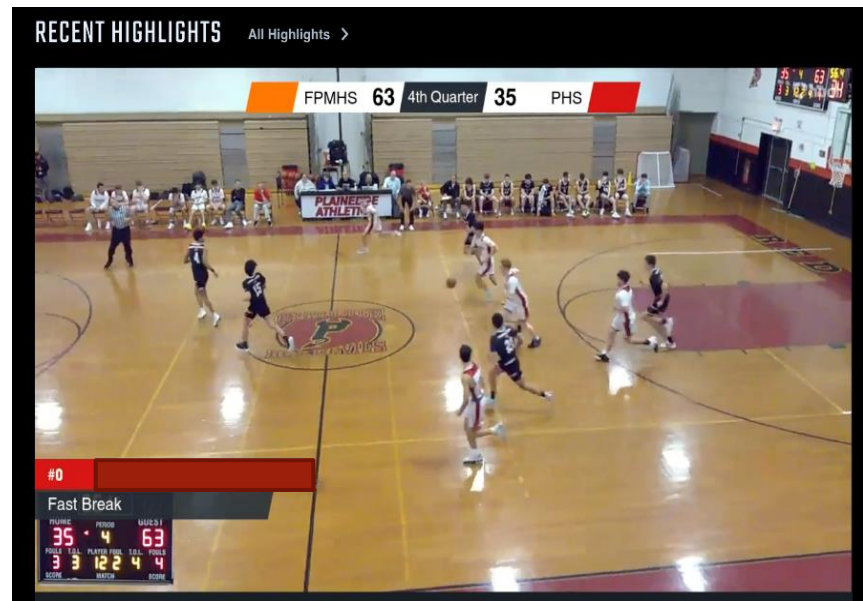
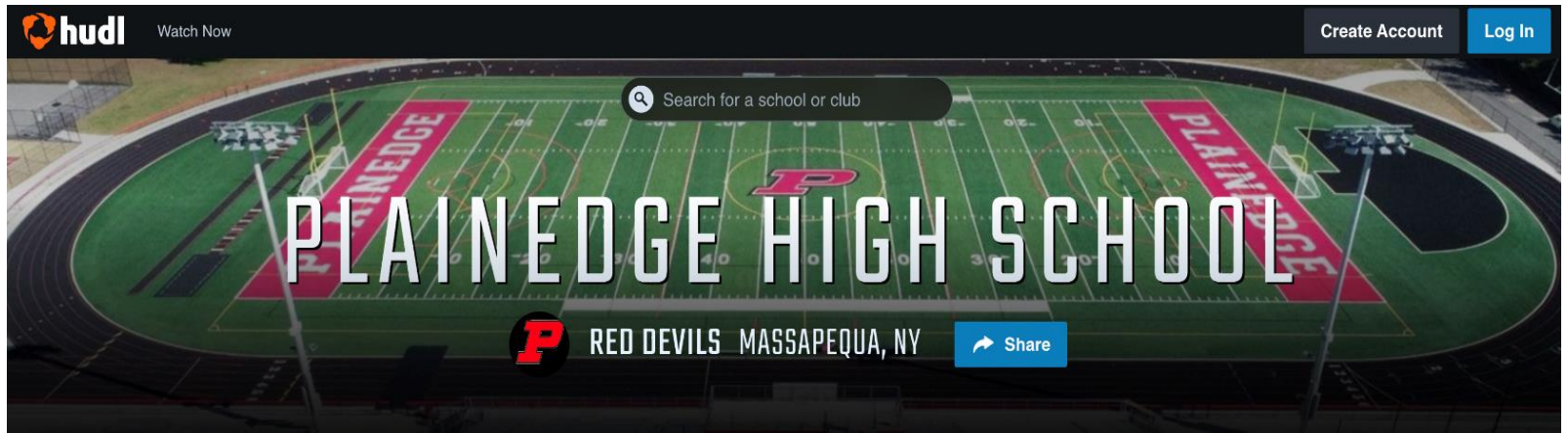






# Technology In Plainedge

## Live Streaming of Athletic Events



*Over 16,000 viewers remotely attend our events annually!*





# Technology in Plainedge

## E-Sports

**10 weeks: Spring Season**  
Official competition season

Weekly Schedule (Aligning with the EGF)

**Mondays**  
3pm-4:30pm

Game Design

**Tuesdays**  
3pm-4:30pm

Smash Bros

**Wednesdays**  
3pm-4:30pm

Rocket League

**Thursdays**  
3pm-4:30pm

Overwatch



# Technology Budget

## A Historical Perspective

2023-2024 = \$ 2,524,737

2024-2025 = \$ 2,489,629

-1.39%

**Year-to-Year Change: -\$35,108**

### Budget Highlights/Initiatives

New Mac Lab at High School - Graphics / Digital Photography  
ID Card System Upgrade

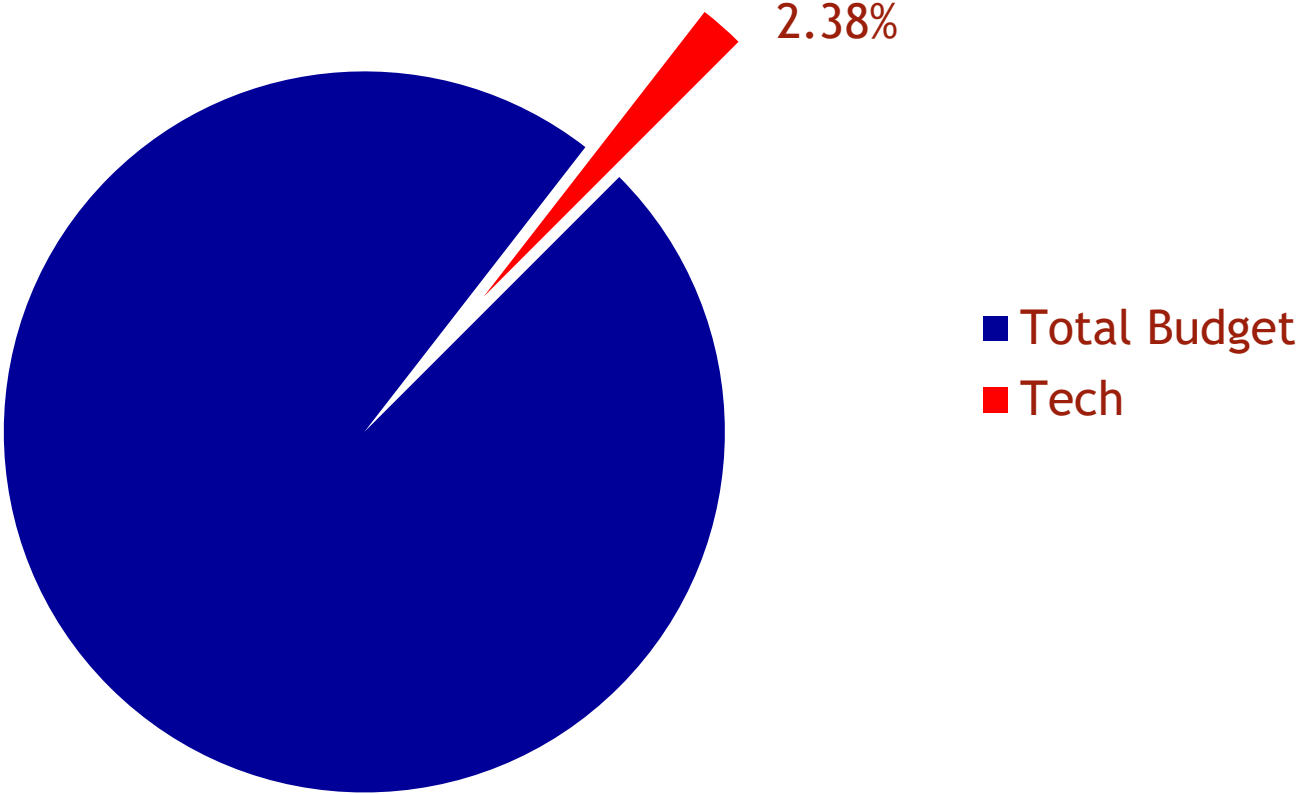
Phase 2 - SchoolFront Human Resource Management System





# The Instructional and Administrative Technology Budget

What Percentage of the Budget?



*\*Recommendation by NYS Panel of Technology Advisors to invest 5% of District Budget to meet PARCC Requirements*

# 2024-2025 Recommended Budget

<b>Categories</b>	<b>2023-2024</b>		<b>2024-2025</b>	
School Supervision - District Copying	\$	93,588	\$	93,588
Central Data - BOCES Services		873,277		873,277
Computer Instruction - Equipment		128,078		128,078
Computer Instruction - Contractual		259,170		249,670
Computer Instruction - Software		282,684		276,196
Computer Instruction - Supplies		175,000		175,000
Computer Instruction - BOCES Services		712,940		693,820
<b>Totals</b>	<b>\$</b>	<b>2,524,737</b>	<b>\$</b>	<b>2,489,629</b>

# Technology In Plainedge

## PROJECTS COMPLETED IN 2023-24

- ✓ Replaced Chromebooks to Grade K, 1, 2, 3, 4, and 8
- ✓ Replaced iPads in Elementary STEAM program
- ✓ Continued support of our 1:1 program K-12 (Over 3,000 devices)
- ✓ Continued support of our Zoom & Google Meet & G-Suite for Education (Google)
- ✓ Continued support for our drone program, robotics, and E-Sports programs
- ✓ Replaced and upgraded projectors and document cameras districtwide
- ✓ Expanded our storage infrastructure providing additional resources for our virtual environments
- ✓ Upgraded fiber interconnections between all buildings while lowering cost
- ✓ Continue to monitor and enhance our cybersecurity initiatives districtwide
- ✓ Replaced physical backup devices for greater redundancy - higher density
- ✓ Automation of account creation, modification, and disabling





# Technology In Plainedge

## PROJECTS COMPLETED IN 2023-24

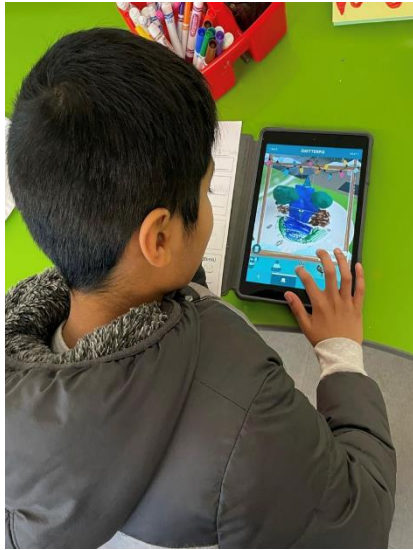
- ✓ **Added interior and exterior access points to expand coverage at buildings**
- ✓ **Replaced security cameras districtwide**
- ✓ **Replaced our video surveillance system**
- ✓ **Plainedge Fitness Center Project**
  - ✓ **Implemented new sound system with zone controls**
  - ✓ **Addition of video walls utilizing existing TV's**
  - ✓ **Implemented additional IDF with Crestron controls and power management**
  - ✓ **Addition of video surveillance and access control**



# Technology Roadmap



## Annual Review of Our Network Infrastructure, Hardware, and Technical Support



- Switches - Core and Peripheral Switches
- Firewall
- Servers
- Battery Backup Systems
- File Storage Capacity - SAN
- Virtual Desktop Infrastructure Capacity
- Office Computers
- iPads
- Copiers
- Classroom Computers
- Intelligent Whiteboards
- Document Cameras
- Laptops (Staff/Student)
- Chromebooks
- Printers
- Remote Access
- Software
- Technical Support
- Wireless Network
- Cybersecurity

# Technology Initiatives 2024-2025



- Continue to support our 1:1 program K-12
- Replace end of life and non-touch Chromebooks with New Dell Touchscreen Chromebooks (2024-2025 School Year - Grade K, 2, 12)
- Continue support for our extensive STEAM and Robotics programs districtwide
- Continue to support our virtual environments providing access to technology 24/7 from anywhere
- Upgrade outdated technology devices such as interactive projectors & document cameras
- Continue support for our remote platforms such as Google Classroom and Google Meet
- Continue and expand staff development and content area focuses with integration training
- Continue to upgrade and improve technology security initiatives
- Expand functionality of our Video Management System (VMS) for districtwide security
- Expand on new human resources system
- Implement ScholarChip replacement system



# QUESTIONS?

