Harborfields 2030
Instructional Technology Plan

April 13, 2022

Each Child. Each Day. One Harborfields Family

VISION:

Each Child. Each Day.
One Harborfields Family.

Each Child. Each Day. One Harborfields Family.

MISSION STATEMENT

The mission of the Harborfields Central School District is to provide an innovative and collaborative learning environment where all students are empowered to realize their unique potential while striving for academic excellence. We aim to prepare students for their future and to equip each child with the essential tools needed to become respectful, responsible, resilient, empathetic, self-assured adults. Harborfields is committed to developing life-long learners with the intellectual, social and emotional skills necessary to achieve success as active citizens within their local community and in an ever-changing diverse global society.

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2021 – 2022 Board of Education Goal

Innovation:

The Board of Education, in collaboration with the Superintendent and his team will:

Develop the "Harborfields 2030" long term technology plan to expand upon and leverage the work completed in the current Technology 2.0 Plan. This work will support and enhance the use of technology in the areas of classroom instruction, parent support and involvement, public relations, home-school communication, student and staff data privacy, school security, and staff development and training.

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Presentation Outline

➔ Introduction

➔ Planning Process

➔ Goals

➔ Funding Sources

➔ Digital Equity

➔ Parent Involvement

➔ Looking to the Future

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Why Do We Need To Have A Technology Plan?

★ Technology evolves quickly

★ Innovation requires planning

★ We must be responsive to the needs of our students, staff, and community
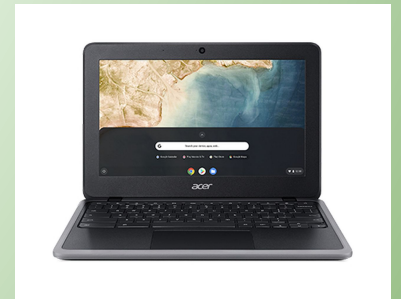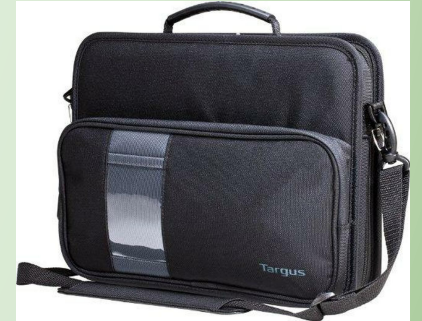
Current 5-year Technology Plan

Harborfields 1:1 Five Year Plan					
Grade	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
9	PILOT	DISTRIBUTE (GRADE 9)	DISTRIBUTE (GRADE 9)	DISTRIBUTE (GRADE 9)	DISTRIBUTE (GRADE 9)
10		PILOT	Grade 10 1:1	Grade 10 1:1	Grade 10 1:1
11			PILOT	Grade 11 1:1	Grade 11 1:1
12				PILOT	Grade 12 1:1

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Harborfields 1:1 Technology 2030

Grade	2022-2023	2023-2024	2024-2025
6	DISTRIBUTE (GRADE 6) 215 Students	DISTRIBUTE (GRADE 6) 181 Students	DISTRIBUTE (GRADE 6) 184 Students
7	Grade 7 1:1 206 Students	Grade 7 1:1 215 Students	Grade 7 1:1 181 Students
8	Grade 8 1:1 219 Students	Grade 8 1:1 206 Students	Grade 8 1:1 215 Students
9	REFRESH (GRADE 9)* 265 Students	Grade 9 1:1 219 Students	Grade 9 1:1 206 Students
10	Grade 10 1:1 276 Students	Grade 10 1:1 265 Students	REFRESH Grade 10 1:1* 219 Students
11	Grade 11 1:1 218 Students	REFRESH Grade 11 1:1* 276 Students	Grade 11 1:1 265 Students
12	Grade 12 1:1* 239 Students	Grade 12 1:1* 218 Students	Grade 12 1:1* 276 Students

All K-5 Students have an assigned 1:1 Chromebook.

Harborfields 2030 is So Much More Than Chromebooks!

★ Focus on Student and Adult Learning

★ Development of Innovative Methods of Instruction

★ Providing a Safe Physical and Online Learning Environment

★ Ensuring a Future Focused and Reliable Infrastructure

★ Delivering Equitable Access to Learning for ALL Students

★ Capitalize on Funding Opportunities to Ensure a Fiscally Sound and Sustainable Plan

We need to take what we learned and move forward with the intentional use of technology…

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Harborfields 2030 Planning Process

The goals of this plan were created with the <u>end in mind</u>; the end of developing a district-wide learning environment that invites students to collaborate, to identify and solve problems, and to create and share solutions.

__Collaborative Meetings__

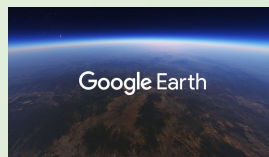| |
|---|
| District Technology Committee Goals Workshop |
| Strategic Planning Core Group |
| Parent- Digital Equity Survey |
| Individual and group meetings with various district stakeholders (Teachers, Parents, Administrators) |
| SEPTA- Survey out to members |
| Board of Education |

Goal 1

To expand professional development opportunities for faculty and staff members to support innovative practices and ensure culturally and linguistically responsive learning environments.

★ Research Reimagined PD and Instructional Models

★ Emphasis on Culturally Responsive Learning with Technology

★ Understanding of Differentiation with Technology

➔ Nearpod Immersive Reader

➔ Global Read Aloud Connections

➔ Google Earth Lessons

➔ Varied Assessment Opportunities

> Technology will never replace great teachers, but technology in the hands of a great teacher can be transformational.
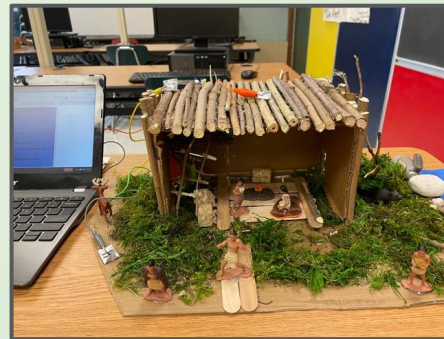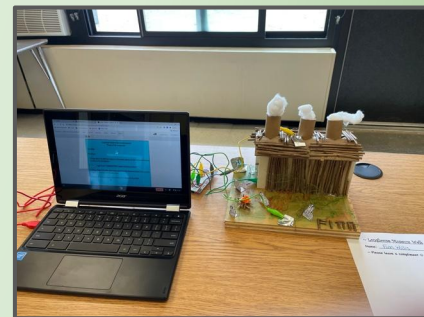>
> GEORGE COUROS

Fostering the 4C's of Teaching and Learning

Our **Harborfields 2030** Instructional Technology Plan will continue to promote innovative classroom instructional practices that foster **collaboration, creativity**, **critical thinking**, and **communication.**

- ❖ Project Based Learning
- ❖ Digital Portfolios
- ❖ Coding Projects
- ❖ Digital Book Clubs
- ❖ Multimedia Presentations
- ❖ Infusing Culturally Responsive Teaching with Technology (e.g. Global Read Aloud)
- ❖ Expanded Extracurricular Programs in Areas of Technology

4th Grade Longhouse Coding Projects!

Goal 2

To communicate the computer science and digital fluency learning standards and provide the entire school community with instruction on safely using technology to effectively find, evaluate, create and communicate information.

★ Nine grade K-8 teachers per year for 5 years to be trained within the Smart Start Grant Program.

★ Curriculum development to naturally infuse the learning standards into daily lessons.

★ Provide structured professional development to focus on reimagining instruction with the use of technology.

At the end of the Smart Start program, the district will have **45 teachers** trained in computer science skills and the newly adopted standards!

Computer Science and Digital Fluency Learning Standards

Timeline and Rollout Plan

Dates	Phase	Activities
Dec. 2020 – Aug. 2021	Awareness-Building	Roll-out and building awareness of the new standards and timeline for implementation
Sept. 2021 – Aug. 2023	Capacity-Building	Focus on curriculum development, resource acquisition, professional development
Sept. 2023 – Aug. 2024	Year 1 Implementation	All credit-bearing Computer Science courses will be aligned with NYS CS&DF Standards
September 2024	Full Implementation	CS&DF Standards implemented in all grade bands K-12

Goal 3

To use technology to enhance students' investigation and inquiry of 21st century learning opportunities.

★ Student Apprenticeship Program

★ Library Space- peer tutoring, technology support, video tutorial production

★ Alumni Networking- 21st century job opportunities

★ Investigate club and course offerings

★ Enhance coding throughout curriculum areas

Goal 4

To Ensure a Modern, Resilient, and Future-Ready Network Infrastructure.

★ <u>Increase Bandwidth Capability</u>: 1:1 replacement of Single Mode Fiber to OM4 Multimode Armored Fiber Cabling

★ <u>Ensure Network Reliability</u>: Modernization of Network Power Supply

★ <u>Future Ready Network</u>: Transition to Cisco Meraki Switches

★ <u>Enhance Wireless Access</u>: Increase WiFi Aruba Access Points

★ <u>Add Redundancy</u>: Additional ISP for disaster recovery and redundancy at OMS

SMF   MMF

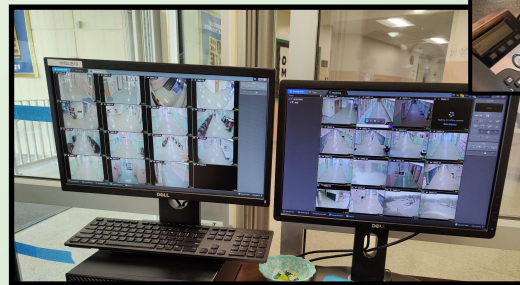Figure 2: Color Sheath of SMF and MMF

cisco Meraki

Goal 5

To enhance security in both our virtual and physical environments.

★   Deployment of an enhanced Mass Notification System

★   Next Generation Anti-Virus Protection

★   Security Vestibules- Fully functional with dual security
       monitors

★   Enhance Security Cameras in all Buildings

★   Cybersecurity Training and Support

★   Protection of Personally Identifiable Information

Security Monitoring at all Schools!

Harborfields 2030: Summary of Goals

Supporting Our Commitment to Excellence

★ To expand professional development opportunities for faculty and staff members to support innovative practices and ensure culturally and linguistically responsive learning environments

★ To communicate the computer science and digital fluency learning standards and provide the entire school community with instruction on safely using technology to effectively find, evaluate, create and communicate information

★ To use technology to enhance students' investigation and inquiry of 21st century learning opportunities

★ To ensure a modern, resilient, and future-ready network infrastructure

★ To enhance security in both our virtual and physical environments

Sustainable Funding Sources for Technology

Chromebooks, Desktops, LED SMART Boards	Multi-year lease purchase plan through BOCES (Aidable)
Network Upgrade Project	CRSSA, E-Rate and SmartBond Funds
District Software (KidOYO, Nearpod, Kami, Gizmos, Go Guardian, etc.)	Coordinated through BOCES (Aidable)

Boards of Cooperative Educational Services
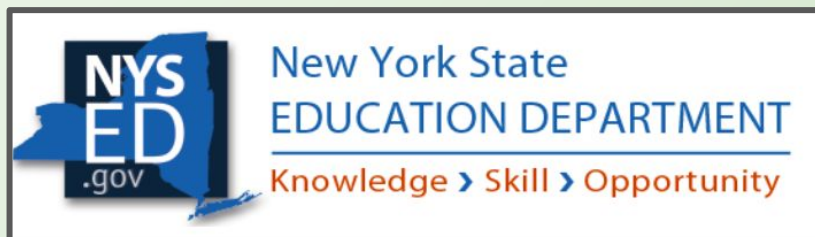
BOCES
of NEW YORK STATE

E-Rate

★ **E-Rate** is a federal program under the Federal Communications Commission (FCC) that provides discounts for connectivity and network equipment/services. Our discount rate is 40%.
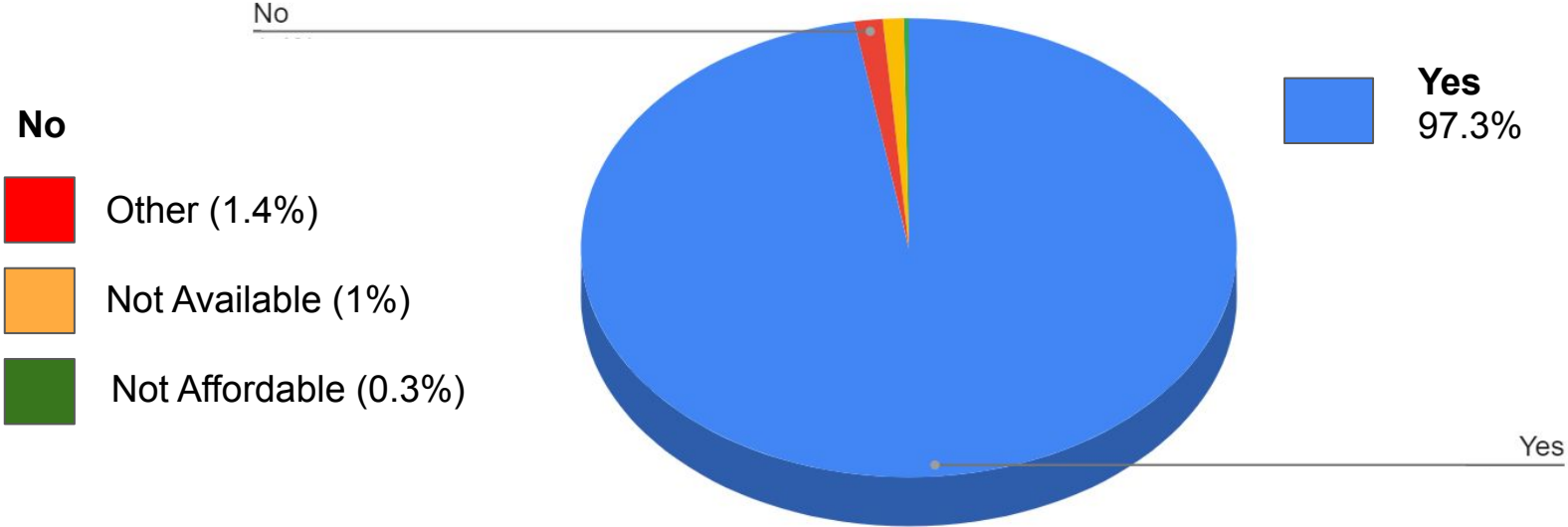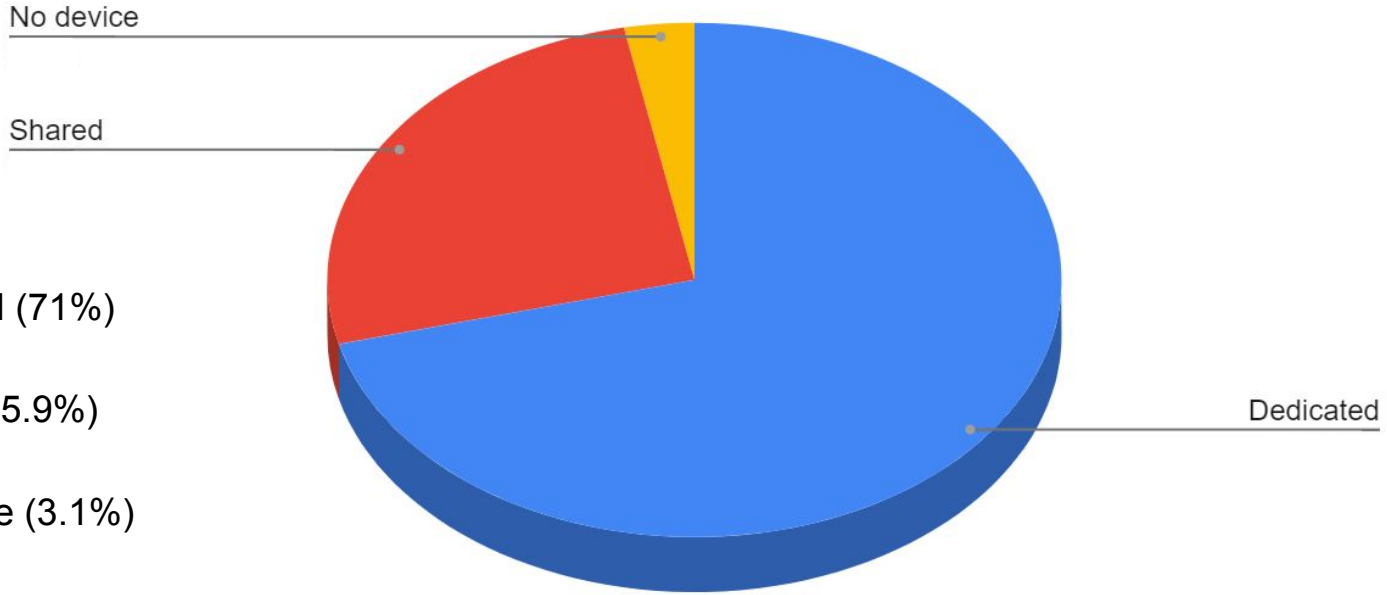
Digital Equity Survey 2021-2022

❖ The COVID-19 Pandemic has put a spotlight on the need to address Digital Equity in New York State. NYSED requires all schools in New York State to survey families on digital access and connectivity.

❖ The questions in the survey are provided by NYSED and serve to reduce the digital divide among households.

❖ The following slides offer a brief summary of our digital access within the Harborfields CSD.

NYS ED .gov

**New York State
EDUCATION DEPARTMENT**

Knowledge › Skill › Opportunity

Is Your Child Able to Access the Internet on their Primary Learning Device?

No

Other (1.4%)

Not Available (1%)

Not Affordable (0.3%)

No

Yes
97.3%

Yes

Increased Parent Support and Involvement

❖ Parent Workshops and Training

❖ Expand Infinite Campus Parent Portal Usage

   ➢ Backpack

   ➢ Course Registration

   ➢ Notifications

❖ FinalForms - Athletics

❖ Parent Involvement

   ➢ Kids Who Code

   ➢ STEAM Fair

   ➢ Career Connections

Kids Who Code!

Parent Academy at WDPS!

Parent Academy
Technology Overview

Mrs. Jennifer Washington
Director of Technology & Security Systems

Looking to the Future

The **Harborfields 2030** Instructional Technology Plan sets our vision for where we want to be and provides a roadmap to get there. This journey will require the collective efforts of our entire learning community as we work together to provide the very best for our learning community.

❖ Next Steps

➢ The Plan is submitted to the BOCES Regional Information Center (RIC) for review

➢ Once reviewed, the Harborfields Board of Education ratifies the plan at the June meeting.

➢ Once ratified, the plan is submitted to the New York State Education Department prior to June 30th.

Harborfields 2030 Instructional Technology Plan

Thank You for Your Continued Support!

Any Questions?