2022-2025 Marathon Central School District Technology Plan

Mission: Embrace – Educate – Empower.

Vision: To excel at graduating citizens who are college and career ready and able to pursue unlimited possibilities locally and globally by using technology proficiently to perform everyday operations, communication, as well as gain information independently.

Action Plan

Goal 1:

The district will create a three-five year hardware plan which will provide a sequential replacement for student and staff computers, peripheral equipment, display hardware, and infrastructure necessary to provide instruction on and off campus.

NYSED goal that best aligns with this district goal.

Develop a strategic vision and goals to support student achievement and engagement through the seamless integration of technology into teaching and learning.

Target Student Population(s):

All students

Additional Target Population(s).

Teachers, teacher assistants, teacher aides, administrators, technology specialists, and secretarial staff.

How will this instructional technology goal be measured and evaluated during and after implementation?

The goal will be evaluated each year by reviewing the purchase plan, determining what and how much was purchased, the adjustments needed to be most effective for student learning and teacher performance, evaluation in pricing and advancements in technology, keeping the rotation schedule on track while staying within budgetary constraints and keeping technology current.

Action Step	Action Step	Description	Responsible Stakeholder	Other responsible Stakeholder	Anticipated Date of Completion	Anticipated Cost
1	Purchasing	Computers - Laptops and desktops	Director of Technology	Business Official	6/2025	$243,550
2	Purchasing	Peripheral equipment	Director of Technology	Business Official	6/2025	$59,868
3	Purchasing	Display hardware	Director of Technology	Business Official	6/2025	$0
4	Purchasing	Infrastructure	Director of Technology	Business Official	6/2025	$0

Technology Replacement Plan

Computers:

- UPK-1 (Year 4 - 2026) - $53,510 (Chromebooks)
- 2-6 (Year 3 - 2025) - $150,150 (Lenovo - touchscreen)
- 7-8 (Year 4 - 2026) - $76,360 (Lenovo - touchscreen)
- 9-12 (Year 4 - 2026) - $218,790 (Lenovo - touchscreen)
- STEM Lab (Year 1 - 2023)- $13,200 Lenovo - touchscreen (same as HS)
- Computer Labs (Year 1 - 2023) - $55,200
- Office PC’s (Year 1 - 2023) - $25,000
- Faculty Laptops (Year 5 - 2027) - $120,000 (Lenovo - touchscreen)

Peripheral equipment:

- Printers
- Mice
- Keyboards
- Document cameras

Smart Boards/Smart TV’s (Replacement will be beyond 2027)

Infrastructure

- Cabling - (Replacement will be beyond 2027)

Goal 2:

Marathon Central School District will provide timely targeted technology professional development to meet the needs of student learning and to enhance teacher instruction.

NYSED goal that best aligns with this district goal.

Provide access to relevant and rigorous professional development to ensure educators and leaders are provident in the integration of learning technologies.

Target Student Population(s):

All students.

Additional Target Population(s).

Teachers, teacher assistants, teacher aides, administrators, other support staff.

How will this instructional technology goal be measured and evaluated during and after implementation?

The professional learning plan is evaluated each year by 1) reviewing staff attendance at each workshop. The district will seek to increase the number of people in attendance at professional development offerings in order to increase the number of people who are learning and utilizing the skills taught in the workshops. 2) classroom observations - reviewing the application of information taught in workshops into the classroom. 3) requests for future workshops, and 4) workshop evaluations - value of the content for the staff attending the workshop.

Action Step	Action Step	Description	Responsible Stakeholder	Other responsible Stakeholder	Anticipated Date of Completion	Anticipated Cost
1	Collaboration	Staff will collaborate and provide feedback on professional development needs based on curriculum, computer science and digital fluency learning standards, and technological needs for each year. A professional development offering will be created for both summer, and during school (before.after school and during conference days)	Director of Curriculum and Instruction	Superintendent	6/2025	$0
2	Budgeting	Funds will be allocated to compensate staff when PD is offered outside of regular school hours. Grant money will be used whenever possible to promote attendance and increase stipend amounts.	Director of Technology	Business Official	6/2025	**$6,000** ($2,000 each year for paying staff curriculum rate to attend PD x 3 years for tech plan = $6,000)
3	Data Privacy	Software using PII within the district will be Ed Law 2D compliant. Contracts with software companies will be updated and information made available to staff and parents on the Marathon website.	Superintendent	Director of Technology	6/2025	**$30,000** $10,000 per year 18-20 contracts per year time 3 years
4	Professional development	Professional development specific to technology will be offered to all interested staff each summer, during most superintendent conference days, and on a regular basis throughout the school year.	Director of Curriculum and Instruction	Superintendent	6/2025	**$10,500** ($4,500 + $6,000 = $10,500) ($1,500 each year to bring in the tech PD x 3 years of tech plan = **$4,500**) ($2,000 each year for paying staff curriculum rate to attend PD x 3 years for tech plan = **$6,000**)

Goal 3:

The utilization of technology (hardware and software) to foster student centered learning.

NYSED goal that best aligns with this district goal.

Increase equitable access to high quality digital resources and standards-based, technology-rich learning experiences.

Target Student Population(s):

All students.

Additional Target Population(s).

Teachers, teacher assistants, teacher aides, administrators, other support staff.

How will this instructional technology goal be measured and evaluated during and after implementation?

This goal will be measured through the execution of surveys done with students, a resort of emerging markets, course creation and student evaluations for STEM classes and drone programs and the development of a geek squad (students who provide tech-support services to students/staff). The Geek squad will be evaluated by the director of technology with periodic customer care surveys by students/staff who have computers serviced.

Action Step	Action Step	Description	Responsible Stakeholder	Other responsible Stakeholder	Anticipated Date of Completion	Anticipated Cost
1	Planning	To survey students to determine interests and what the emerging job markets are which can be supported through technology.	Principal	Guidance counselor	6/2023	$0
2	Develop STEM Programming	Develop STEM opportunities in the ES and HS	Teacher(s)	Guidance Department/Principals	6/2025	$1,440 (curriculum pay for 8 days of curriculum work to update, revise, and create STEM curriculum)
3	DRONE Program	Offer classes/DRONE endorsement	Teacher	Principal	6/2025	$2,600 (This was the cost for Todd's SkyOP-Drone Instructor Training Class. I used the same cost in anticipation of future training or a recertification class)
4	Develop Geek Squad	Develop a student geek squad which will fix computers, printers, and help staff with computer issues	Director of Technology	Network technician	6/2025	$0

V. NYSED Initiatives Alignment

1. **How the district use of instructional technology will serve as a part of a comprehensive and sustained effort to support rigorous academic standards attainment and performance improvement for students?**

   One to one technology is provided for each student. Teachers use Google Classroom to place homework assignments for grades 7-12. Assignments are housed in Google Classroom dependent on the content area and the grade level for grades 1-6. Technology is used as a resource, a collaborative tool, and is used for independent learning.

2. **What are the strategies the district plans to implement to address the need to provide equitable learning "everywhere, all the time" (National Technology Plan)?**

   The district provides one to one computers to all students which are internet accessible. Students have access to the internet while at school. Students are surveyed to determine if they have access to the internet at home. Students that do not have internet access at home are provided with Kajeets or Mifi's, providing them with the ability to work on assignments off site. All students have the ability to have offline files, which allows them to sync their files before leaving school automatically and when arriving back to school (also automatically) through Goole Suite. This allows them to continue to work on most homework assignments at home.

   The district is working with local municipal agencies and government agencies to bring internet access to portions of the district that still lack internet access. This continues to be a slow and frustrating endeavor.

   The district currently has a redundant internet service through the CNYRIC and is working on adding additional cabling to internet hubs within the building to provide faster connections when students and staff download video.

3. **How is instruction using technology differentiated to support the individual learning needs of students with disabilities?**

   The district's strategic plan is Embrace * Educate * Empower. The use of instructional technology assists directly with the educate and empower components. Based on data collected and a needs assessment, the district will be focusing on graduation rates, course failures, chronic absenteeism, literacy and math mastery. For grades K-12, one to one technology will help students stay connected

to the curriculum and the assignments, help them collaborate with the teacher and their peers to produce products and help them research areas of interest. This expands student learning both inside and outside the classroom by providing all students with hardware that has the capability to run programs the district is using for instruction and collaboration. One example - Google classroom provides students with classroom content electronically as well as a way to work together both inside and outside the classroom. The computer's ability to sync allows students who do not have internet access the ability to complete assignments and then sync to the internet and the classroom drives when they return to school. This technology empowers our students by making sure they all have equal access and have the ability to excel no matter their location or economics status.

One area the district identified as an area to reduce the learning gap is education. Laptops would allow students with disabilities (SWD) to have equal access to the curriculum. Laptops give SWD's the ability to record a lesson and watch it again at a later time for repetition of the content. For those students who have a reading disability that cannot read the English language fluently, they would have the ability to listen to audio recordings of books when appropriate. For visually impaired students, the touch screen lap top allows the screen to be easily enlarged by “pinching” the screen. For SWD that require a scribe, they can use typing to make their work more legible. The district’s devices, Surfaces, laptops/IPads (at the elementary school) can be loaded with the following assistive technology programs for SWD: Narration-- Read aloud software could be useful for them when completing assignments, accessing texts, etc. Word Prediction--Word prediction software, such as Co: Writer, could support students that have difficulty with spelling/writing due to their limited reading ability. Speech Recognition--Helps students who have difficulty with written expression due to the physical process of handwriting/typing. This program could transfer information from voice to text. Visual Display-- Provides specialized displays due to vision concerns. Changing background colors which provides reverse contrast for students. Closed Captioning--Students with access to hearing assistance technology can use closed captioning when available. Optimizing the listening environment--Look at our classrooms to see if there are any ways to optimize the listening environment for all students but especially those with hearing needs. For instance, No Noise Seat Feet to reduce the noise in the classroom. These laptops will give students a different mode of instruction based on their ability.

4. **How does the district utilize technology to address the needs of students with disabilities to ensure equitable access to instruction, materials, and assessments?**

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5. **How does the district utilize technology to address the needs of English Language Learners to ensure equitable access to instruction, materials, and assessments?**

For those students who cannot read the English language fluently, they have the ability to listen to audio recordings of books when appropriate. Additionally, technology is used for translating material into students native language.