



New Fairfield Schools

Technology Plan - December 2017



History of the Technology Plan

- Last plan covered years 2012 - 2015
- CT state no longer requires a technology plan as of 2015
- In 2017 CT state provided new educational goals and a new plan
- Our plan is aligned to the state as well as the National Plan



The current plan

- Our Technology Plan follows best practices and takes ISTE Standards into account while following national and state guidelines.
- We strive for technology to be a tool that is utilized effectively and is integrated into the curriculum.



The current plan - Table of Contents

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Goal 1: Learning

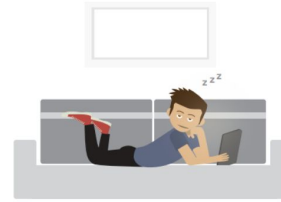
Engaging and Empowering Learning

- All learners will have engaging and empowering learning experiences both in and out of school that prepare them to be active, creative, knowledgeable and ethical participants in our globally networked society.

DIGITAL USE DIVIDE

While essential, closing the digital divide alone will not transform learning. We must also close the digital **use** divide by ensuring all students understand how to use technology as a tool to engage in creative, productive, life-long learning rather than simply consuming passive content.

Simply consuming media or completing digitized worksheets falls short.



PASSIVE USE

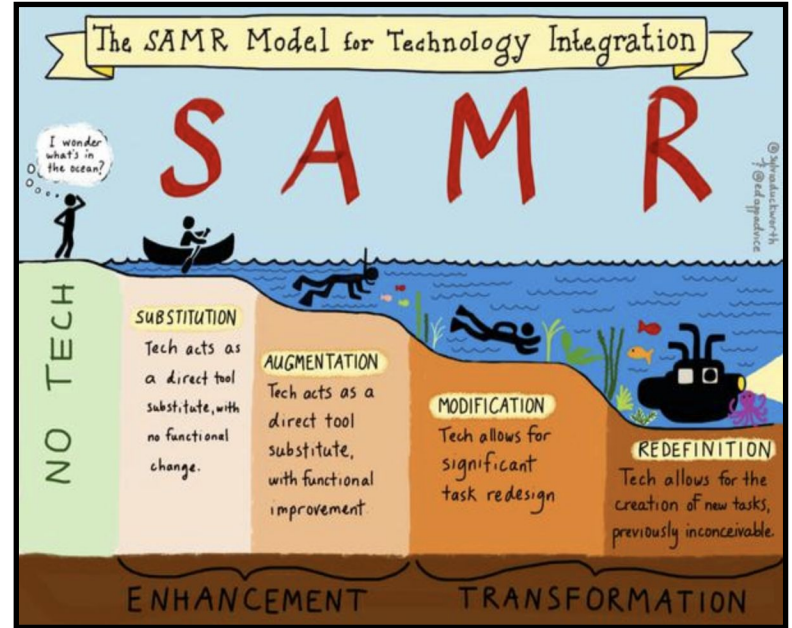


ACTIVE USE

Goal 2: Teaching

Teaching with Technology

- Professional educators will individually, and in teams, use technology to connect them to people, data, content, resources, expertise and learning experiences that enable and inspire more effective teaching for all learners.



Goal 3: Leadership

Creating a Culture and Conditions for Innovation and Change

- Embed an understanding of technology - enabled education within the roles and responsibilities of education leaders at all levels and set visions for technology in learning.












Goal 4: Assessment

- **Measuring for Learning**
 - At all levels, our education system will leverage the power of technology to measure what matters and use assessment data to improve learning.

FUTURE OF ASSESSMENT

The shift from traditional paper and pencil to next generation digital assessments enables more flexibility, responsiveness, and contextualization.

	TRADITIONAL	NEXT GENERATION
TIMING	 After learning	 Embedded in learning
ACCESSIBILITY	 Limited	 Universally designed
PATHWAYS	 Fixed	 Adaptive
FEEDBACK	 Delayed	 Real Time
ITEM TYPES	 Generic	 Enhanced

Goal 5: Infrastructure

INFRASTRUCTURE

To Support Everywhere, All the Time Learning



Enabling Access and Effective Use

- All students and educators will have access to a robust and comprehensive infrastructure when and where they need it for learning.

Goals and Action Plans Examples



[Direct Link to Technology Plan](#)

[Goals and Action Plans](#)





Data Privacy

- Ensuring the privacy of all data is paramount in a well-managed system. The expectation that our data are secured is not taken lightly in the New Fairfield Public Schools. We utilize a vast variety of tools daily to ensure our students' online safety. The data collected by these tools are evaluated every day to protect our students beyond the school campus. The tools include out-of-district filtering, real-time threat analysis, real-time scanning for data exposure and keywords that could indicate bullying, violence, hatred or self-harm.

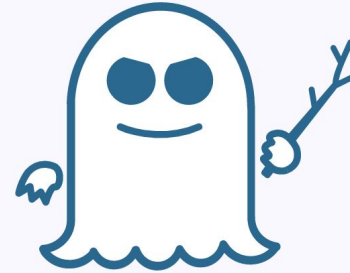
Network User Management

- User management is a secure and for our students automated system
- Other important parts include
 - Password Policy
 - Separation of IT Employee Accounts
 - Recertification of Access Rights



Server Patch Management

- All servers must be kept up-to date with latest security patches. On Windows servers this is done automatically via WSUS (Windows Software Update Services). The process should be checked every six months to ensure that important updates are installed on a regular basis.
- Crucial updates are installed as soon the are available as it was done with [Meltdown and Spectre](#) vulnerabilities.



Spectre



Meltdown

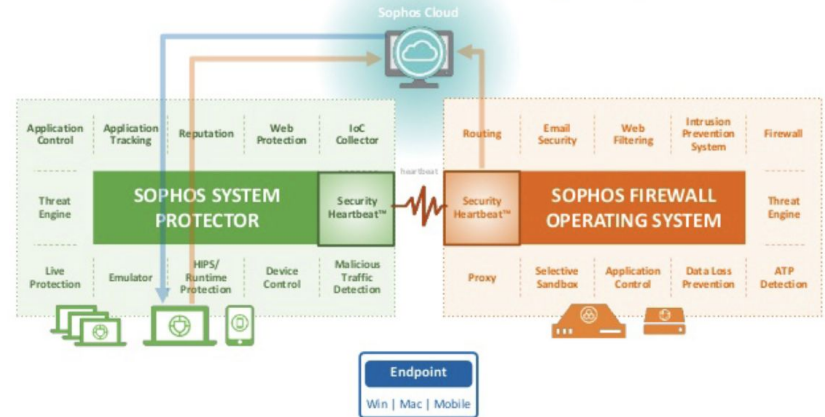


Antivirus Management

- Antivirus software must be installed on all Windows servers, Apple Servers, Windows desktops, workstations and Mac workstations. Warning messages are generated via email. These messages must be responded to appropriately.



Automated Protection of Endpoints



SOPHOS



Business Continuity/Disaster Recovery

- Our business continuity and disaster recovery plan will enable us to respond to a disaster that destroys or severely cripples the central computer systems. The intent is to restore operations as quickly as possible with the latest and most up-to-date data available.



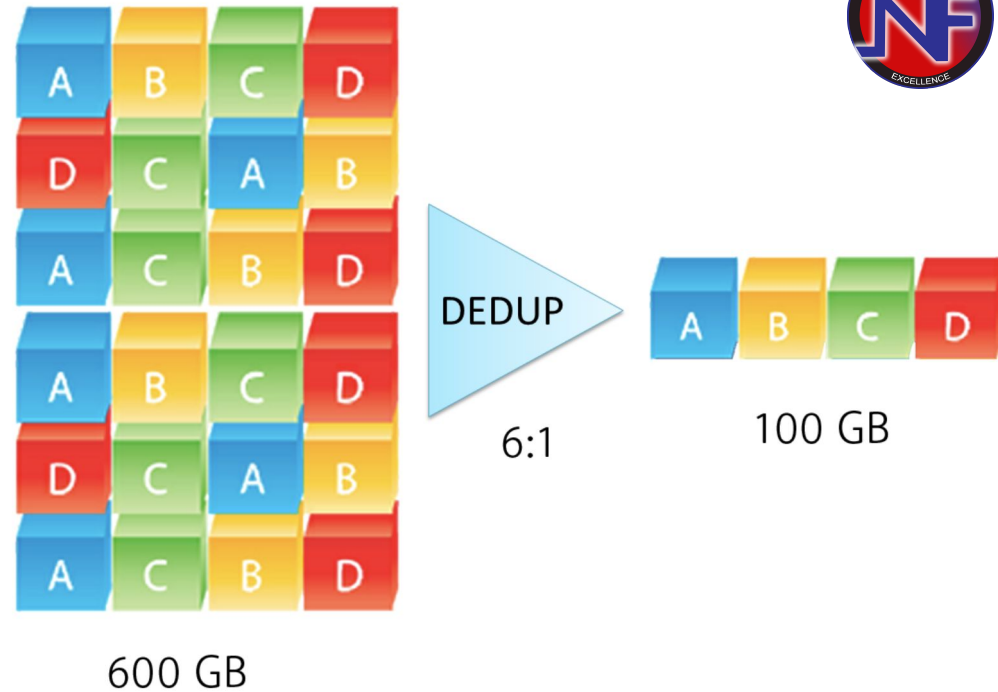
Backup Management

- All servers are backed up every hour so that potential data loss is reduced, leaving virtually no impact on teaching, learning, and business management. Should any errors occur during the backing up or restoring of data, an email is sent to all system administrators.
- A restore test should be performed twice a year in order to guarantee the viability of all data, should a restoration be necessary.



Deduplication - Backup efficiency

- Deduplication is a process used to efficiently backup all data that is generated in the organization. The process helps us to backup only the systems and information that are not redundant.



Infrastructure Life Cycle



Our Infrastructure is continuously evaluated for secure and efficient operation and a life expectancy plan is drafted for every infrastructure component.



Device Life Cycles

To maintain the computers in our schools, understanding that they have a five-year life expectancy, one-fifth of all of our Chromebooks and laptops are replaced annually. Desktops used by office staff will also be replaced on the same schedule. At the high school, specialized programs require replacement of desktop computers every four years.

Device Lifecycle Management

