

*HANOVER TOWNSHIP SCHOOL DISTRICT*



*Local District Technology Plan*

*2019-2022*

## ***TABLE OF CONTENTS***

	<b>Page</b>
<b>Technology Planning Committee - Stakeholders</b>	<b>3</b>
<b>Technology Plan Components Checklist Introduction</b>	<b>4</b>
<b>Technology Mission/Vision Statement</b>	<b>5</b>
<b>Current Practices and Educational Environment</b>	<b>6</b>
<b>Technology Needs Assessment</b>	<b>7</b>
<b>District Technology Goals and Indicators</b>	<b>8</b>
<b>Implementation planning</b>	<b>9</b>
<b>Funding Plan Table</b>	<b>15</b>

### Technology Planning Committee – Stakeholders

I agree to the contents in this educational plan, and the assurance that I will be involved in the implementation of this Technology Plan for Digital Learning. Involvement in the implementation of this Plan may include: reviewing the progress of meeting the goals and objectives, being responsible for completing one or more activities in the action plan, participating in the revisions of the plan. Stakeholders associated with the district and school levels (i.e., each principal from targeted schools) should sign.

Stakeholder Name	Stakeholder Title	Stakeholder Signature
Michael Wasko	District Superintendent	
Vanessa Wolsky	Business Administrator	
Michael Schwab	Director of Technology	
Aaron Wasserman	Director of Curriculum	
Michael Anderson	Principal, MJS	
Darrin Stark	Principal, BMS	
Roberto Camean	Principal, SDS	
Greg Margolis	Director of Special Services	
Greg Matyola	Technology Integration Specialist	
Michele Pratola	Education Technology Specialist	
Edward Cashen	Education Technology Specialist	
Linda Peterson	Education Technology Specialist	

# Technology Plan Component Checklist

- ❖ If the [Future Ready District Level](#) summary report was generated within the past year school year, include a copy of the district report with the Plan submission.
- ❖ If the [NJTRAx Digital Learning Surveys](#) summary report was generated, include a copy for all identified schools.

**This form may be used to ensure all components are addressed in the submitted document for review. Please address the areas below for each school that will be the focus for digital learning transformation over the next three years in the technology plan.**

<b>County/District Code: Morris/2000</b> <b>School /Charter School/Renaissance School: Hanover Township Public Schools</b> <b>NJTRAx PARCC Technology Readiness Rating: 9</b> <b>NJTRAx Digital Learning Readiness Rating: n/a</b>			
STEP		YES	NO
1.	The District-level vision is included in the School-based Plan.	YES	
2.	NJTRAx technology readiness system for this school was updated.	YES	
3.	NJTRAx Digital Learning surveys for this school was completed, if applicable.		NO
4.	School-based S.M.A.R.T. Goals, Strategies, Objectives and Indicators that evaluate the completion and success of the goal(s), strategies, and objectives are included for this school.	YES	
5.	The action plan identifies the person(s) responsible for ensuring goals, strategies and objectives are completed within the specified time frames.	YES	
6.	The submitted plan addresses the task of reflecting on the results of the activities, and adjusting the plan accordingly for this school at targeted time intervals.	YES	
7.	A budget is included that supports the activity plan.	YES	
8.	The plan for digital learning through the infusion of technology within instruction and/or the curriculum is clearly understood in this school.	YES	
9.	The signed STAKEHOLDER ASSURANCE is included.	YES	

## **TECHNOLOGY MISSION AND VISION STATEMENT**

The mission of the Hanover Township School District to provide a solid foundation for future success, children will be challenged to think critically, assume responsibility, contribute to their community, and care about others as well as themselves. All pupils' unique abilities will be developed within a nurturing environment so that they achieve the New Jersey Core Curriculum Content Standards, New Jersey Learning Standards, and Common Core State Standards at all grade levels through the offering of excellent and innovative academic, athletic, and artistic experiences.

As a component of the school district mission, the Hanover Township School District works to promote a climate that supports student engagement, innovation, and pride. The school district has a strong, existing platform to integrate technology across the curriculum and aspires to continue to integrate technology to promote the education of the whole child while providing meaningful learning experiences to best prepare students for the demands of 21st century life and careers. Through an extensive assessment of district needs and the creation of an innovative strategic plan, Hanover Township Schools has identified several technology goals to support the continued integration of technology in all grades kindergarten to grade eight.

## CURRENT PRACTICES AND EDUCATIONAL ENVIRONMENT

The Hanover Township Board of Education has taken great steps in providing, promoting, and supporting the entire school community by collaboratively integrating a three year technology plan with rich goals. District Goals which support technology and digital learning have been established based on needs assessments shared with stakeholders.

The New Jersey Department of Education has created an assessment through NJTrax to determine digital learning readiness as well as technology readiness for state testing. The generated reports have provided meaningful data to support the creation of the Hanover Township Technology Plan.

The current staff's practice in integrating technology across the curriculum to improve instruction is evaluated through observation reports, visits to classroom, lesson plans, curriculum feedback and a staff survey. To date, the technology resources available in each of the four schools are used extensively; computer labs, classroom computers, media centers and technology-based curriculum support the integration of technology. Changing curriculum needs (NJSLs and NJSLA Assessment) promote the technology enhancements, professional development, and integration throughout all aspects of learning.

Staff members seek opportunities to learn more about integrating technology through classroom visits, workshops and personal exploration. Numerous projects that involve students with technology evolve through staff initiative. (i.e. Google Apps for Education, web communication with other school districts and classes, Chromebook initiative)

Increasing the roles of our Educational Technology Specialists has, provided on-site demonstrations, coaching and after school workshops to support and increase staff practices that foster integration of technology across the curriculum.

The reported practices of staff members indicate an evolving level of integrating technology across the curriculum, a high to nearing very high level.

The results of *Educator Academy Survey* administered to teachers, administrators and library media personal indicated:

- A high degree of comfort with basic technology skills on the part of all respondents.
- A need for professional development to effectively utilize changing digital technology (ie. Powerschool, Frontline, GAFE).
- An interest in developing skills to incorporate advanced skills (pod casting, i movie, iPad, Apple TV, coding, GAFE, development, student-created projects, rubric assessment.)

At present our internal network and wireless capabilities have been upgraded. The acquisition of Chromebook, projectors, iPads, laptops have all been on-going and part of the budget process to support the changing and emerging technology needs.

Efforts to maintain and increase the accessibility will continue during 2019-2022.

## TECHNOLOGY NEEDS ASSESSMENT

Technology will be used to support a comprehensive academic program that prepares students for the 21st century. Technology will be used to effectively communicate with the community. Meeting the goals of the Educational Technology Plan will be noted:

- In the completion of the Digital Learning Teacher Survey and Year End Professional Development and Educator Academy Survey which will determine subsequent staff development opportunities.
- In the formation of yearly professional development plans.
- In the course work and attendance records of the Educator Academy
- In the selection of and reports from off-site workshops.
- In classroom observations.
- In lessons plans.
- In curriculum communication logs.
- In student acquisition of New Jersey Student Learning Standards and achievement on formative and summative assessments ie. NJSLA.
- In the quality of student work as presented in various forms: projects, exhibitions, demonstrations, portfolios. Particular attention will be directed at examples of student work that include technology integration and global connections and outreach.

The implementation of the Technology Plan will serve as a vehicle to record, monitor and inform the integration of technology to support student learning with particular emphasis on New Jersey Student Learning Standards 21<sup>st</sup> century skills, and global communication and outreach.

Student learning that incorporates integrating technology in the curricula and instruction, assists students meeting challenging state academic standards and promotes the development of life-long learning skills will be noted and evaluated through:

- The continuation of the current practice of having teachers record on an annual basis examples of technology enhanced teaching and learning.
- An on-going record of achievement that will support the enhancement of the technology capability of the district. It will be a result of the acquisition of new equipment, and corresponding technology enriched instructional programs and corresponding professional development skills that promote 21<sup>st</sup> century skills and global collaboration and outreach.
- Observation of classrooms, lesson plans, and curriculum communication logs citing integration of technology and evidence of the development of lifelong learning skills.
- Formative, on-time evaluation of student projects, exhibitions, performances, demonstrations and portfolios will provide opportunity to assess the degree to which technology is appropriately integrated into the curricula. The periodic monitoring of the process also provides opportunity to assist students as they are engaged in the learning process. It will also provide instructional strategies and use of technology to promote student achievement.

A particular focus on the attainment of 21<sup>st</sup> century skills and global collaboration and outreach will be an essential part of the formative, as well as summative evaluation and accountability effort. Student attainment of ESSA requirements and NJ Student Learning Standards Content Standards as recorded on local and state assessments

## DISTRICT TECHNOLOGY GOALS AND INDICATORS

**Goal One:** The Hanover Township School District will promote the role of digital learning in the K-8 classroom.

- The Hanover Township School District will provide resources to differentiate instruction and personalize learning experiences for all students.
- The Hanover Township School District will provide digital tools to facilitate collaboration across grade levels and content areas.
- The Hanover Township School District will support the role of technology across the content areas

**Goal Two:** The Hanover Township School District will use Technology to support communication with the community.

- The Hanover Township School District will utilize technology to support communication among administration, faculty and staff.
- The Hanover Township School District will utilize technology to increase communication between the community and schools.

**Goal Three:** The Hanover Township School District will continue to support a well-managed infrastructure, efficient repair procedures, and high speed connectivity to the Internet in all instructional and administrative areas within the district.

- The Hanover Township School District will monitor bandwidth usage to ensure optimal capacity, provide appropriate personnel to secure and operate technology infrastructure, maintain operational and reliable technology equipment throughout district, provide adequate wireless density in all classes and instructional areas to support technology related initiatives.



# *Hanover Township Public Schools Implementation Planning*

NJTRAx PARCC Readiness Rating: 9

NJTRAx Digital Learning Readiness Rating: n/a

**Goal 1:** Technology will be used to support a comprehensive academic program that prepares students for the 21<sup>st</sup> Century.

**Objective:** The Hanover Township School District will promote the role of digital learning in the K-8 classroom.

**Evaluation/Indicators:** Success will be indicated within surveys, curricular documents, educator feedback, student assessments, and professional development

<b>Projects/Activities</b> (include the steps required to ensure activity completion)	<b>Person responsible</b> for completion of activity and those responsible for reviewing or approving the activity to move forward	<b>Timeline</b> (mm/yr span)	<b>Resources</b>
The District will research and investigate digital resources that promote differentiation in the K-8 classroom.	Director of Curriculum Principals Education Technology Specialists Director of Technology Grade Level/Subject Area Leaders	9/2022	Research, Vendors, Conferences, PLC's, Professional Development
The District will continue to promote digital learning by replacing obsolete technology and purchasing innovative hardware and technology to support curricular initiatives and 21 <sup>st</sup> century learning.	Director of Technology Director of Curriculum Business Administrator Principals Technology Committee	9/2022	Research, Vendors, PLC's, Comparable Districts
The District will promote the use of Google Apps for Education (GAFE) and infuse the learning management system to support student achievement and communication among professionals.	Administrative Team Education Technology Specialists Relevant Instructional Staff	9/2022	Professional Development, Workshops, PLC's,
The District will use technology to partner with the community/related industries/or businesses to promote student achievement.	Administrative Team Teachers	9/2022	Partnerships with local businesses ie: Bayer, 3M, and Barclays Coding
The District will provide teachers with the proper resources and support necessary to support student achievement.	Board of Education Superintendent Administrative Team	9/2022	Building based staff to support ongoing professional development

<p>Technology will be used to support a comprehensive academic program that prepares students for the 21<sup>st</sup> Century.</p>	<ul style="list-style-type: none"> <li>• Training on the Google Environment</li> <li>• Google Classroom</li> <li>• Training for digital learning</li> <li>• Communication via team/faculty meetings</li> <li>• Training in the use of google environment will be a focus at PD Workshops.</li> <li>• Data driven decisions using Google surveys, spreadsheets, etc.</li> <li>• Google Classroom for student management and assessment</li> </ul>	<p>9/2022</p>	<p>Educator Academy Education Technology Specialists Variety of PD Workshops</p>
<p>The District will continue to research and investigate resources to provide to all staff and students on data governance and privacy policy.</p>	<ul style="list-style-type: none"> <li>• Director of Curriculum</li> <li>• Principals</li> <li>• Educational Technology Specialists</li> <li>• Director of Technology</li> <li>• Grade Level/Subject Area Leaders</li> </ul>	<p>9/2022</p>	<p>Research, Conferences, PLC's Professional Development</p>

## *Hanover Township Public Schools*

NJTRAx PARCC Readiness Rating: 9

NJTRAx Digital Learning Readiness Rating: n/a

**Goal 2:** The Hanover Township School District will use Technology to support communication with the community.

**Objective:** The Hanover Township School District will utilize technology to support communication among administration, faculty, staff and the community.

**Evaluation/Indicators:** Success will be indicated within surveys, community feedback, stakeholder and PLC feedback

<b>Projects/Activities</b> (include the steps required to ensure activity completion)	<b>Person responsible</b> for completion of activity and those responsible for reviewing or approving the activity to move forward	<b>Timeline</b> (mm/yr span)	<b>Resources</b>
The District will promote online portals to communicate student achievement	Administrative Team Education Technology Specialists Director of Technology Grade Level/Subject Area Leaders	9/2022	Research Vendors Conferences/Workshops Professional Development PLC's
The District will research and continue to improve the website to promote ease of navigation.	Director of Technology Principals Technology Committee	9/2022	Research, Vendors, PLC's, Comparable Districts
The District will continue to improve its use of emergency notification systems, mobile communication app, social media, to update the community on issues.	Director of Technology Principals Superintendent	9/2022	
The District will enhance its use of Google Apps for Education to streamline communication among all stakeholders.	Administrative Team Education Technology Specialists Relevant Instructional Staff	9/2022	Professional Development, Workshops, PLC's,
The Hanover Township School District will use Technology to support communication with the community.	<ul style="list-style-type: none"> <li>• Training via the Hanover Township Educator Academy</li> <li>• Work with Ed. Tech Specialists and PTA Advisory</li> <li>• PD regarding social media outlets for classroom use.</li> <li>• Research on possible tools will be conducted and collaboration will occur with Technology Committee and Administrative Team.</li> </ul>	9/2022	Swift Reach Website PowerTeacher Pro

## *Hanover Township Public Schools*

NJTRAx PARCC Readiness Rating: 9

NJTRAx Digital Learning Readiness Rating: n/a

**Goal 3:** The Hanover Township School District will continue to support a well-managed infrastructure, efficient repair procedures, and high speed connectivity to the Internet in all instructional and administrative areas within the district.

**Objective:** The Hanover Township School District will monitor bandwidth usage to ensure optimal capacity, provide appropriate personnel to secure and operate technology infrastructure, maintain operational and reliable technology equipment throughout district, provide adequate wireless density in all classes and instructional areas to support technology related initiatives.

**Evaluation/Indicators:** Network functionality, repair response time, increased student to device ratios, optimized bandwidth

<b>Projects/Activities</b> (include the steps required to ensure activity completion)	<b>Person responsible</b> for completion of activity and those responsible for reviewing or approving the activity to move forward	<b>Timeline</b> (mm/yr span)	<b>Resources</b>
Maintain contract Crown Castle for the WAN connections of 1GB between each of the elementary schools back to the middle school.	Director of Technology Business Administrator	6/2022	Sunesys
Maintain high quality LAN in each building to ensure that network traffic within the building for data and phones travels as needed.	Director of Technology Business Administrator	6/2022	Monitoring
Maintain and upgrade at End Of Life devices where applicable.	Director of Technology Business Administrator	6/2022	Monitoring
Monitor wireless traffic to see if other access points are needed. Increase Wi-Fi density as needed.	Director of Technology Business Administrator	09/2019 - 06/2022	Monitoring Aerohive Access Points
Upgrade District servers utilizing virtualization Increase total Chromebooks to accommodate a cart to classroom environment grade K-8	Director of Technology  Director of Technology Director of Curriculum	9/2019  6/2022	VMWare  Chromebooks

	Principals Education Technology Specialists		Staff
Maintain the contract with Lightpath for ISP Services of 1GB Fiber Internet Access	Director of Technology Coordinator Business Administrator	6/2022	Lightpath
Education Technology Specialists will be employed in each elementary school to function as support and a liaison to the Technology Department.	Director of Technology Director of Curriculum Principals Education Technology Specialists	6/2022	Budgeted Salary
The Hanover Township School District will continue to support a well-managed infrastructure, efficient repair procedures, and high speed connectivity to the Internet in all instructional and administrative areas within the district.	<ul style="list-style-type: none"> <li>• Technology Committee will assess on a quarterly basis</li> <li>• Vendor Presentations/Webinars</li> <li>• Director of technology will continue to articulate with surrounding districts.</li> </ul>	9/2022	

### Funding Plan Table

<b>Three Year Educational Technology Funding Plan</b>					
<b>Item</b>	<b>Description of Item to be Purchased</b>	<b>Federal Funding</b>	<b>State Funding</b>	<b>Local Funding</b>	<b>Misc. (private funding, grants, etc.)</b>
<b>Digital Curricula</b>	Continued subscription to pre-approved curricula in accordance with both state learning standards and approved district curriculum.	<b>0%</b>	<b>0%</b>	<b>100%</b>	<b>0%</b>
<b>Technology Equipment</b>	<p><b>Year 1</b></p> <ul style="list-style-type: none"> <li>• Purchase and deploy 500 Chromebooks and carts to MJS</li> <li>• Maintain existing equipment and repair/replace as needed</li> </ul> <p><b>Year 2</b></p> <ul style="list-style-type: none"> <li>• Purchase and deploy Chromebooks and carts to as necessary for replacement purposes only</li> <li>• Maintain existing equipment and repair/replace as needed</li> </ul>	<b>0%</b>	<b>0%</b>	<b>100%</b>	<b>0%</b>

	<p><b>Year 3</b></p> <ul style="list-style-type: none"> <li>• Purchase 500 Chromebooks and Carts for MJS and Distribute the MJS Materials to elementary.</li> <li>• Continue upgrading teacher laptops as needed</li> <li>• Purchase additional whiteboard projectors where needed</li> <li>• Maintain existing equipment and repair/replace as needed</li> </ul>				
<b>Network/Capacity/filtering</b>	Potential network upgrades on an as needed basis.	<b>0%</b>	<b>0%</b>	<b>100%</b>	<b>0%</b>
<b>Software</b>	District licenses will require annual renewal	<b>0%</b>	<b>0%</b>	<b>100%</b>	<b>0%</b>
<b>Maintenance</b>	Consumable parts may be required to maintain existing technology.	<b>0%</b>	<b>0%</b>	<b>100%</b>	<b>0%</b>
<b>Upgrades</b>	May be required on an ongoing basis.	<b>0%</b>	<b>0%</b>	<b>100%</b>	<b>0%</b>
<b>Policy and Plans</b>	Annual subscription to Strauss Esmay policy service	<b>0%</b>	<b>0%</b>	<b>100%</b>	<b>0%</b>