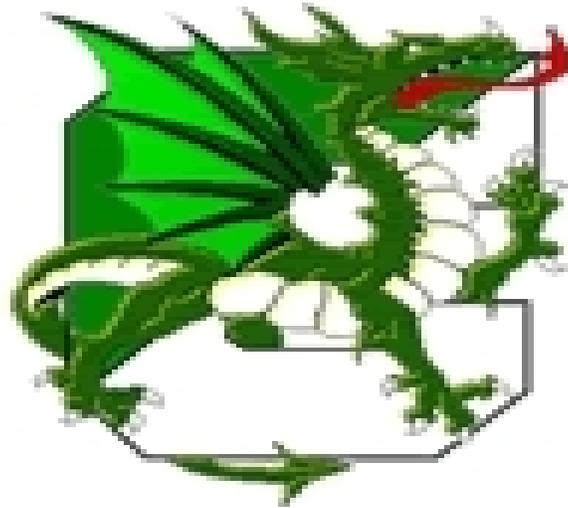


Instructional Technology Plan

July 2018 through June 2021



Cornwall Central School District

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District Overview

Cornwall Central School District Mission

Mission

The Cornwall Central School District is committed to work together with the community to provide a secure and nurturing environment of diverse learning opportunities for all students. It is our goal to help students achieve their dreams and aspirations and to prepare them to confidently face challenges while promoting strength of mind, body and character.

Introduction: District Background

Cornwall Central School District has a tradition of setting the highest standard of excellence in educating its students. Providing each child with the tools to develop to his or her highest potential begins in kindergarten and continues until graduation from our state-of-the-art high school. The opportunities to learn and grow are many. They vary from college level and Advanced Placement courses in the high school to exciting programs that begin at the elementary level and include science inquiry at Black Rock Forest. We offer extensive opportunities in music such as All-County Chorus and Band, Jazz Band, Strings Program and Select Choir. In drama and art we offer full-scale theatrical productions from K-12, studio art courses and Festival of the Arts programs from K-12. Our athletic program is second to none with over 1,000 varsity letters awarded each year and multiple Section IX and division championships achieved annually.

Although it is difficult to put a price tag on value, our school district places a priority on maintaining this level of excellence with a close focus on using our resources wisely. Our vision is to expand the opportunities for an ever-growing student population while maintaining our tradition of the highest level of excellence.

School Overview: Cornwall Central School District consists of one high school, one middle school, three elementary schools, a facility for buildings and grounds and a district office.

TECHNOLOGY VISION AND GOALS

VISION

The Cornwall Central School District community accepts the responsibility to promote technology to foster and enhance skills for college and career readiness and to prepare all students to become successful members of an ever changing information based global society. To accomplish this, technology will become an integral part of learning across the curriculum, support and enhance a diverse learning opportunity, provide equitable access to information at all levels, and provide opportunities that will enable our students to achieve the New York State Common Core State Standards. Different vehicles of technology will be used to promote problem solving, creativity, communication, and productivity. We strive to empower all users to obtain their dreams and aspirations and to be continual life-long learners and producers of knowledge.

Specifically, we envision that technology is available and effectively supported for all students and staff:

- To provide global access to information.
- To teach and develop digital citizenship and internet safety intelligence
- To refine critical thinking, problem solving, and decision making skills.
- To foster creativity and innovation.
- To provide a medium for communication and collaboration.
- To improve research and information fluency skills.
- To collect, assess, and share performance information.
- To improve the effectiveness of administrative tasks.
- To assist in the conservation of resources by supporting green initiatives such as paperless communication.
- To provide skills and proficiencies necessary for the workforce.
- To provide technology-rich learning environment.
- Computer-based and web-based software and lessons that integrate the computer across the instructional program.
- Use of multimedia, virtual, and e-learning environments.
- Use of innovative technologies in the classroom that continue to the home and beyond.
- To teach technology operations and concepts
- To meet the new and changing Federal and State Standards.

This vision is aligned with and supports the Cornwall Central School District vision, the New York State Common Core State Standards, the International Society for Technology in Education (ISTE) Student, Teacher and Administrator Standards.

It is our intention that this vision will remain constant over the course of our plan and that it will guide the day-to-day and year-to-year implementation of technology across Cornwall Central Schools.

GOALS

1. Continue to implement the District's 1:1 timeline to insure that all students have equitable access. By doing so, this will help insure that students will be college and career ready, moving forward to meeting New York State Standards, and productive members of society.
2. Continue to integrate emerging technologies throughout the District curriculum, while keeping our staff and students up to date with the latest technologies, including updates and changes to the District Technology Benchmarks.
3. Continue to keep staff and students up-to-date with all emerging Internet safety, current and future cyber threats. This also includes maintaining and protecting the District's technology infrastructure and data.
4. Continue to update and maintain the District's infrastructure to insure that the network can safely support the District's current and future initiatives.
5. Continue to use technology as daily support to integrate New York State Common Core State Standards with the curriculum in all content areas.
6. Continue to implement professional development opportunities in coordination with the Professional Development Committee.
7. Keep Acceptable Use Policy for Electronic Resources current with changes to laws and regulations and advances in technology.
8. Maintain communication with all staff, students, parents, and community through district notification system, district e-mail system, phone system, student management system, and the district web site. Explore and implement additional communication avenues using social media and other emerging technologies.
9. Continue to provide increased access to information technology with teachers and students through wireless networking and other mobile technologies.
10. Cooperate with New York State technology related initiatives.
11. Continue using technology to help collaborate, promote critical thinking, and foster creativity and innovation.
12. Continue to insure that all students, faculty and staff practice good digital citizenship.

13. Provide students and staff easy access to safe real-time information through the use of digital media to enhance curriculum and learning.
14. Continue to provide the ability for staff and students to access district technology resources anywhere, anytime.
15. Continue to educate students and staff on using different technologies to promote green initiatives. This includes endorsing the purchase of new green technologies.
16. Expand technology support staff and educational technology staff to meet the increased demands of a technology and data driven district.
17. Upgrade district-wide infrastructure to support current and future hardware, software and bandwidth requirements with a cost-effective and scalable foundation.
18. Continue to implement a STEAM program throughout the entire District.

The Technology Committee

The District Technology Committee is represented by teachers, administrators, staff and the Board of Education. One of the goals of this committee was to update the District's Instructional Technology Plan with a strategic outlook providing all stakeholders with a framework to guide them in establishing a technology enriched learning environment. The resulting learning environment will provide opportunities for students to apply information resources and their academic skills for solving real-world problems and engage students in activities that combine educational technology skills and relevant curricular content. We thank the current committee members, listed below, for their time, ideas, and effort that went into updating the current Technology Plan.

Tina Kakascik, Chair	Director of Data and Technology
Megan Argenio	Elementary Principal
Keith Baisley	Educational Technology Specialist
Larry Berger	Board of Education Member
Nicole Chewens	High School Teacher
Gail Duffy	Asst Super for Curriculum and Instruction
Kelly Finn	High School Teacher
Michael Flannery	High School Teacher
Alison Harter	Elementary School Teacher
John Hines	High School Teacher
Kelly Hogan	Elementary School Teacher
Lynn Imperato	High School Principal
Kim McGinnis	Elementary School Teacher
Robyn McGuinness	High School Teacher
Neal Miller	Superintendent of Schools
Margaret Quinn	Board of Education Member
Mark Ray	Middle School Assistant Principal
Grace Rydqvist	Elementary School Teacher
Patricia Young	Middle School Teacher
Jeremy Wood	Senior Computer Network Specialist

CURRICULUM

A. Curriculum Integration

1. Continue to develop and Implement technology benchmarks checklist for students K-12, including the District Technology Matrix.
2. Continually update the Technology Curriculum Maps K-4 and 5-12.
3. Offer Professional Development and collaboration opportunities regarding technology integration between students, teachers, administration, parents, and/or other stakeholders.
4. Teachers, staff and administrators will work together to plan for a unified instructional approach to technology skills using the ISTE and New York State standards as the infrastructure.
5. Teachers will be encouraged to integrate technology into their own professional teaching programs to improve technology literacy and student achievement.
6. Expand the utilization of data to enhance administrative and teaching decision making to enhance student achievement.

The District plans to use digital connectivity and technology to improve teaching, learning, and academic achievement and technology literacy by implementing open educational resources such as Khan Academy and CK-12, use of digital resources, blended learning, flipped classroom, video collaboration, implementation of a one-to-one device program, enabling virtual desktops and virtual environments to help break down the walls of the classroom, and upgrading the technology infrastructure to help support the future technology initiatives required by the district.

The District Technology Department, in coordination with the Professional Development Committee will continue to survey staff members to determine the professional development needs for the district. Using these surveys and recommendations from the District Technology Department, Professional Development Committee, staff and District Administration, the District will identify and develop Professional Development targeted to assist teachers on how to integrate technology effectively into curricula and instruction. The Technology Integration Teachers will also work directly with teachers through meetings, professional development and one-on-one sessions to also assist teachers in effectively utilizing the technology in their classrooms as well as developing and providing strategies to integrate the technology into curricula and instruction.

The District will continue to constantly evaluate students with disabilities needs and the needs of English Language Learner students throughout the year to provide students with the assistive technologies that they need. The Committee for Special Education will recommend, at evaluations, the specific need of technology and Individual Education Programs to ensure equitable access and help improve academic achievement and technology literacy. The District's approach to ensuring students with disabilities access to and participation in the general curriculum, follows a free approach to public education in the least restrictive environment. The

District's Technology Department will work with the Special Education Department to help keep up to date with the latest assistive technologies to help students achieve.

Additionally, the Technology Department will work hand in hand with the Coordinator of the English as a New Language and the English as a New Language teachers to insure that all students will have equitable access.

B. Student Achievement

Technology can be used to support instruction by acting as a central storage point for information. This also gives centralized access to this information and allows data driven decisions by the Cornwall Central School District. The Cornwall Central School District technology system will support:

- Use of Renaissance Star Reading, Renaissance Star Early Literacy, and Renaissance Star Math Assessments for measuring student progress, formative assessments, and data reports for Kindergarten through eighth grade. These programs are also used in Kindergarten through twelfth grade for students enrolled in Special Education, English as a Second Language, and Academic Intervention Services.
- Use of IEP Direct and RTI-m Direct to warehouse student data for those students in Special Education and the Academic Intervention Services.
- Use of assistive technologies by students with disabilities to ensure equitable access to instruction, materials, assessments and participation in the general curriculum
- Use of BARS (BOCES Assessment Reporting System) to review student data and to help drive individual student learning.
- Use of SchoolTool as a student management system for the following but not limited to:
 - Student scheduling
 - Record keeping for attendance
 - Report card and grade warehouse and production
 - Program Services
 - Warehouse historical student data such as test scores, teacher grades and student transcripts
 - Warehouse health services information
 - Parent Portal
- Expand the use of Google Classroom and Edmodo to encourage online learning
- Increase the usage of Cloud based technologies
- The utilization of Open Content
- Expand the use of Curriculum related iOS and mobile applications
- 1:1 device program
- Maker Spaces
- STEAM
- Google Apps for Education
- Use of Chroma-key Technology
- 3D Printing
- AutoCAD
- Authentic Learning Experiences
- Robotics

- Cloud-Computing based tools
- Electronic books (Social Reading)
- Virtual Reality
- Simple Augmented Reality
- Learning Analytics
- Support the use of the “Flipped Classroom”
- Wearable Technology
- Personal Learning Environments
- Continue to use data to help student learning

C. Technology Delivery

Presently, the Cornwall Central School District uses the following technologies to access distant resources:

- Internet – Cornwall Central School District utilizes many different online web resources such as :
 - Video Conference/Collaborations
 - Live Interactive web cameras
 - Lightspeed Teacher Dashboard
 - YouTube/Teacher Tube
 - Skype
 - Google Earth
 - Google Hangout
 - Google Classroom/Edmodo
 - Google Apps for Education
- iPads/Video Conferencing Unit/Web Cameras
 - Elementary students from two elementary schools in our district collaboratively worked together to learn about each other through interviews, by using web cameras and Skype. They incorporated what they learned from each other into a writing exercise.
 - Numerous elementary and middle school classes have participated in CAPSPACE “Read Around the Planet” video collaboration. During this video collaboration students used the video conference unit to share their English/Reading work with one another.
 - Many classes throughout the District have used Skype to connect with other classes from the United States and from around the World. An example of this is an elementary class used Skype to connect/visit with people in Spain. This was part of a Heritage Project that the students were working on. The students learned a lot about the country.

In the future, the Cornwall Central School District will continue to work with each buildings staff and administration to develop classroom technological structure, mobile devices and carts, interactive presentation equipment, and other technologies to enhance instruction, increase student achievement, and technology literacy. The Cornwall Central School District will incorporate the following technologies into courses and curriculum to help support rigorous courses and distance learning:

- Incorporate Google Classroom and Edmodo the District
- Google Apps for Education
- Assistive Technologies

- Continue to use Video Web Conferencing/Virtual Field Trips
- Continue to use/find more web resources
- Utilize Open Content
- Curriculum related Mobile Applications
- Curriculum related iOS Applications
- One-to-one device Learning
- Anywhere, Anytime Learning
- Cloud-Computing based tools
- E-books
- Virtual Reality and Augment Reality Devices
- Explore emerging technologies

D. Parental Communications & Community Relations

Cornwall Central School District will hold an annual expo which will focus on Technology in Education K-12 and have a diverse group of classes present how they have integrated technology into their classrooms and the curriculum.

Cornwall Central School District will hold an annual meeting with parents to provide them with information relating to student's online life, how technology integrates with the educational setting, safe use of the internet, cyber bullying, etc. Also, provide online resources found on the District's website in regard to the information state above.

Cornwall Central School District will continue to communicate with parents through our student management system. This system provides parents with useful online information about their children regarding State assessments and exams, grades, attendance, emergency contact, etc.

Cornwall Central School District and classroom teachers utilize automated information systems, using phone, e-mail, and text message technologies to alert and communicate with students, parents, staff and members of the community.

The Cornwall Central School District will utilize the district website to disseminate the Instructional Technology Plan to the community. Cornwall Central School District is presently working on updating the Technology website that will provide information that will promote communication with parents and the community regarding new technology in the District, Internet safety.

PROFESSIONAL DEVELOPMENT

E. Professional Development

Strategies for Improving Academic Achievement and Teacher Effectiveness

The following strategies for providing ongoing, sustained professional development for teachers, administrators, and staff to ensure that personnel know how to use new technologies to improve education of which the content of the professional development for technology will be aligned to ISTE Standards-T (Teachers) and ISTE Standards-A (Administrators) and any related state standards:

1. Work with the Professional Development committee to develop and promote ongoing professional development opportunities relating to technology in education.
2. Educate staff on the use of advanced technology to improve student academic achievement.
3. Teachers will have the opportunity to visit with their colleagues who are modeling exemplary ways of technology integration in their classroom or district.
4. Attempt to increase accessibility to information and technology systems.
5. Assess how technology is integrated into curricula, instruction, and assessment.
6. Provide training and support for the use of district data programs such as School Tools, BARS, IEP Direct, and RTI-m Direct.
7. Provide teachers, administrators and staff training on how to access New York State data websites and interpret data to enhance student achievement.
8. Provide many and varied professional development opportunities in the area of instructional technology and student data review.

The Cornwall Central School District currently provides a wide array of technology professional development courses. The District continues to grow the course selection from beginner to advanced - as well as the content areas. Each year, the Cornwall Central School District offers many different types of Technology Professional Development. A survey was sent out to staff, in order to identify and prioritize specific topics that staff would like more professional development in with regards to instructional technology. Professional Development courses are offered during the following times:

- Superintendent Conference Days
- Articulation Days
- Curriculum and Instruction Planning (CIP)
- Faculty Meetings
- In-service Classes
- After-School
- Individual Prep time and Lunch
- Out of District
 - Mid-Hudson Regional Information Center
 - Local Teacher Centers

- Orange Ulster BOCES Model Schools CoSer
- Orange Ulster BOCES Courses
- 3rd Party Vendor Conferences

INFRASTRUCTURE, HARDWARE, TECHNICAL SUPPORT, AND SOFTWARE

F. Infrastructure Needs/Technical Specifications, and Design

The Cornwall Central School District currently owns and operates over 900 computers throughout our classrooms, computer labs and offices. Our PC's currently run Windows 10 while our Macs run Macintosh OS X. We also administer and maintain 27 physical and virtual servers, running Windows Server 2016, which handle our Directory Services, Cafeteria Register System, and File Systems. The District also has approximately 600 iPads and over 1700 Chromebooks that are used throughout the District.

The Cornwall Central School District has multiple Digital Video Recorders that work congruent with the security cameras that were installed in each building. The security cameras provide coverage of all entrances of the building. The Cornwall Central School District has also installed proximity card access systems at each of the entrances of the buildings to allow authorized district personnel to enter the building based on their job duty and schedule. Visitors and deliveries are buzzed into the building using a video based intercom system at each of the critical entrances.

The Cornwall Central School District has a vast array of software throughout the District. The software and online resources support the instructional objectives of the district and help all students learn and achieve.

The Cornwall Central School District's phone system was replaced in the 2007-2008 school year. The phone system is a Voice Over IP (VoIP) system, by Cisco. Currently, there are approximately, 450 phones throughout seven buildings. The Cisco VoIP system handles all incoming and outgoing calls, voicemail, paging, bell scheduling, and 911 emergency call routing. The District provides voicemail boxes to every staff member along with Voicemail to Email services.

Currently the Cornwall Central School District has approximately 81 pieces of network equipment, which many are the backbone of our network. This network services all classrooms, labs, and offices. Most of the District network consists of layer 3 powered Cisco switches that support streaming video and our VoIP telephone system with up to 100 Mbs of connection. Intra-building closets are connected by fiber optic cable providing 1 Gbs of service between closets. Two of our elementary school buildings are connected to our core network at the Middle School by direct fiber optic cable providing 1Gbs of service. Our third elementary school and district office are connected through Light Tower, as a vendor of Orange Ulster BOCES, which provides 100 Mbs of service back to our core network at the Middle School. Our High School is connected through Light Tower, as a vendor of Orange Ulster BOCES, which provides 200 Mbs of service back to our core network at the Middle School. Internet is provided by the Orange-

Ulster BOCES with a 320 Mbs connection. Filtering is provided in district with a Children's Internet Protection Act (CIPA) compliant web filter from Lightspeed Systems.

Security and data integrity are important elements in our district network. Virtual Local Area Network (VLANs) have been implemented throughout the district to segment and secure our network from threats. Redundancy has been built in to our Directory Services, Domain Name Server (DNS) and phone systems to provide service in case of major problems. Mission Critical Servers are backed up nightly to offsite servers located at Orange-Ulster BOCES through their Disaster Recovery service. The new SAN devices are mirrored at each of the two district server rooms, providing redundancy in case of disaster and allowing data to be available if either site is lost. In an effort to provide reliability and minimize downtime, the district purchased software that allows real-time monitoring of all network equipment and servers which provides email notifications to all IT Department members when a failure occurs. Remote access is provided by Virtual Private Network (VPN) service through in district servers which allows the Senior Computer Network Specialist the ability to troubleshoot and resolve problems from anywhere.

In line with District Technology goals, the Cornwall Central School District would like to acquire hardware to provide the following services:

- Virtual Desktops
- Home Access/Anywhere, Anytime Access
- Video on Demand/Cable System Over IP

The Cornwall Central School District's network is adequate to support the current instructional and administrative needs of the district. However, the above services, the growing amounts of web-based programs, increased wireless hardware demands, near-future end of support for our current network equipment, high-definition educational video and distance learning availability, along with the need to meet potential CBT requirements will require upgrades and improvement to the network to provide the capacity, flexibility, and maneuverability that our users will necessitate. Future networking plans for the Cornwall Central School District include the following:

- Upgrade the District wireless network to 802.11ac Wave 2 standard as technology becomes available
- Install fiber optic cable to support 10 GBs standards
- Provide 10 GBs backbone between switch closets
- Provide 10 GBs ports in each closet and server room to facilitate high speed network access for servers, wireless access points, and future technologies
- Install CAT 6a cable to locations needing 10 GBs speed
- Provide 1 GBs ports to each classroom network drop
- Increased cooling and power backup in network closets
- Upgrade internal and external bandwidth

- Update Uninterruptable Power Supply (UPS) infrastructure

To achieve these goals the district will need to make major purchases of equipment, software and licensing to upgrade the network infrastructure.

The Cornwall Central School District's strategy is to increase security in our main network closets. Currently this is provided by a simple key lock. The District plans to install biometric and key swipe apparatus on our main network closets and server rooms. This will not only provide the increased security that the district is looking for, but the ability to audit access in case of a security breach.

The Cornwall Central School District has very ambitious plans during the life of this technology plan, however, given the current economic conditions, budgetary restraints may limit how much progress the District's plan can achieve. The district will also need to plan for meeting future New York State requirements based on and Computer Based Testing (CBT) which will require the district to possibly provide a device to each student simultaneously in three separate grade levels. Each year throughout this plan, the District will re-evaluate the progress and re-adjust accordingly.

During the duration of this plan, the Cornwall Central School Districts will continue to phase out older computers. Replacement computers will be purchased with the most current computer model available. The District will continue our current plan to cycle out computers in our computer labs throughout the District and refresh teacher desktops in each classroom. This plan allows the computer labs to be equipped with latest technologies since the computer labs incur the greatest student use and teachers to have access to the latest technology for instruction of their students. The district also has plans to begin refreshing our mobile device platforms in all of our buildings to keep current with the latest technology. The District would like to stay within a 3-4 year timeframe for technology refreshes. Computers that can be used with the virtualization technology, will be re-purposed, to allow older equipment access to the latest technology. Older equipment will be obsoleted and recycled as needed. The District would like to continue to add Interactive Projectors, document cameras, classroom response systems, and much more.

New software and online subscriptions will be evaluated by the Director of Data and Technology and members of the Information Technology Department. Approved software and online subscriptions will be implemented. The District plans to implement software monitoring to insure only District approved software is installed. The District will continue to move towards software that is web-based, which will provide easier access to all faculty and students inside the District and outside the District.

The Cornwall Central School District Technology Department is currently staffed by the following personnel:

- Director of Data and Technology
- Senior Computer Network Specialist
- Technology Integration Specialist
- Computer Technician

The Cornwall Central School District Technology Department provides technical support for the entire district including administration, faculty, staff, and students. Due to the future mandates of CBT and the increase in the amount of devices on the network and for testing purposes, the district will need to add additional staff.

Technical support for the district's financial program is supplied by the Mid-Hudson Regional Information Center.

G. Increase Access

Cornwall Central School District will strive to supply a basic technology platform for each classroom to include:

- Teacher computer/device
- Interactive projector/whiteboard/apple tv connected to the network through a computer
- Document camera
- Classroom set of mobile devices or one-to-one mobile device program depending on grade level

Cornwall Central School District will also strive to expand access to information technology by supporting the purchase of Chromebooks, Android Tablets, iPads and other Mobile Devices. Devices will be purchased with the goal of providing enough devices for classroom sets of mobile devices at the Elementary Level and one-to-one mobile devices at the Middle and High School levels. This type of approach gives students and teacher the greatest amount of flexibility in developing lessons, delivering instruction and organizing the classroom setting.

To support flexible access to the computer network the Cornwall Central School District has implemented a district wide wireless environment. This approach provides the greatest level of flexibility to students and teachers by allowing them to set up the instruction space regardless of the location of hardwired network access points. A wireless environment limits the need for additional wired access points in classrooms and other instructional spaces. The wireless network will need to be continuously upgraded to support future wireless technologies as they become available to allow for an increased amount of devices at a faster connection rate.

In alignment with the District's Technology goals, the Cornwall Central School District will strive to implement technologies that will allow all faculty and students access to District technology resources and user created documents from locations outside the District.

MONITORING AND EVALUATION

H. Evaluation

To insure that the Technology Plan is successful, the Cornwall Central School will conduct an annual review. It is vital for the Technology Plan to be reviewed twice a year. The evaluation of the Technology Plan will be conducted by the District Technology Committee. The Committee will review the goals and objectives of the plan and adjust the Technology Plan based on the current budget situation, advances in technology, and both instructional and administrative needs.

To evaluate the current state of the Technology Plan, the following measures will be used:

- Interviews/surveys
- Formal and informal evaluations
- Student engagement in the learning process.
- Review effectiveness and adequacy of current technology.
- Review and adjust our goals and objectives to align with changing District goals and available funding.

I. Policies

The District currently uses multiple means to monitor staff and students to make sure they are in compliance with the District Acceptable Use Policy. Examples of the tools utilized are:

- In- District Web Filtering
- Google Apps for Education E-mail filtering and Archiving
- Microsoft Active Directory Group Policy
- Lan School
- Microsoft System Center
- Website Unblock Request forms
- Website Override Request forms
- Centralized Internet usage logs, login/logout time logs, application usage logs, DHCP/DNS logs
- Training

J. Coordination of Resources

Title I – No Child Left Behind/Academic Intervention Services

Our District's Title I, Academic Intervention Services Program has been constructed to support more access for all students needing academic support to address issues that relate to other content areas such as Math, English/Reading, and Science. Throughout the life cycle of this technology plan, the Cornwall Central School District will continue to use software to help monitor and improve student achievement by using the following software titles:

- Renaissance Star Reading
- Renaissance Early Literacy
- Renaissance Star Math
- RTImDirect

A financial plan for long-term investment and sustainability, including coordination and leveraging through local, state, and federal programs and or grants has been developed. Funding will be provided by:

- New York State hardware and software reimbursement
- Federal Title II D
- Local Budget