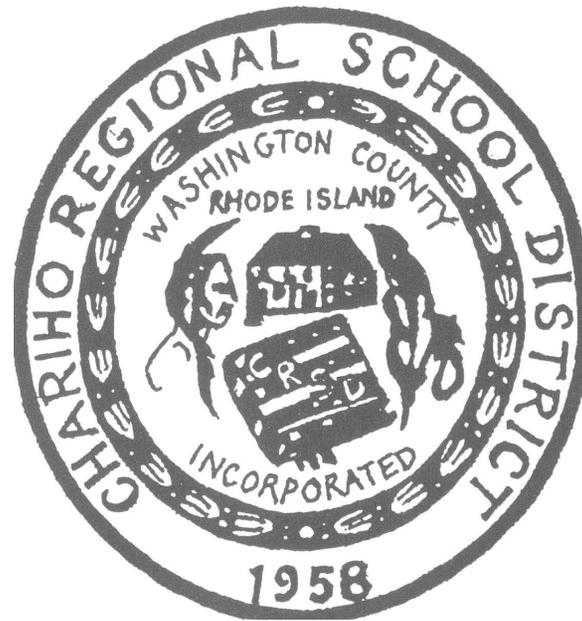


Chariho Regional School District

Technology Plan

2020-2023



***NEW PLAN FOR 21-24 COMING SOON - COVID RELATED
CHANGES DISPLACED MUCH OF THIS PLAN***

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District Technology Plan Committee Members

| Name | Position |
|-----------------------|---|
| Shawn Cole | Director of Educational Technology and Information Systems |
| Jane Daly | Assistant Superintendent |
| Jessica Geremia | Technology Fellow |
| Jennifer Graham | Parent |
| Sherri Jackson | Charlestown and Richmond Elementary Librarian |
| Jacquelyn Karney | Ashaway and Hope Valley Physical Education and Health Teacher |
| Monica Kauffman | Richmond Grade 3 Teacher |
| David Landi | CTC Computer Technology Teacher |
| Craig MacKenzie | Principal Chariho Regional High School |
| Mary Markovitz | Assistant Director Special Education |
| Sharon Martin | Principal Richmond Elementary School |
| Linda McAllister | School Committee Member |
| Jennifer Mossner | CMS 8th Grade Teacher |
| Patricia Pearce | Ashaway Grade 2 Teacher |
| René Rosivach | Technology Fellow |
| Jeanne Ross | Director Chariho Alternative Learning Academy |
| Sarah Devito Thompson | CMS Librarian |

Decision-Making Process

The District Technology Plan Committee was formed in the Fall of 2019. The Committee members met 6 times through February 2020, before a long pause created by COVID-19. Since significant research was put into developing the 2016-2019 Technology Plan, that was the format that was used in developing the new plan. The Committee concentrated on aligning the technology plan with Chariho's *Strategic Plan - Vision 2023* and the district's 1:1 initiative. The District Technology Plan Committee will meet annually in June to update the status of the plan.

Mission

The Chariho Regional School District ensures that all students meet high academic standards and are prepared for lifelong learning and productive global citizenship.

Vision

With a commitment to continuous improvement, the District's highly-qualified staff engages with students in state-of-the-art facilities to master challenging content, to promote creativity, and to foster critical thinking. The District is recognized by the community as its greatest asset.

Beliefs

We believe that high academic standards and research-informed decision making are critical ...

- Rigorous academic standards and high expectations, along with a robust and responsive system of supports, are the foundation of the school district.
- All professionals operate from a belief that all students can learn and meet or exceed demanding standards.
- All students at every level must be engaged in challenging academic experiences.
- Instructional and program decisions must be data-informed and evidence-based.
- Learning is a continuous lifelong process.
- Schools must prepare students to be creative and critical thinkers, problem solvers, and effective communicators.

We believe that the larger community must be fully engaged in the learning process...

- Education is a shared responsibility of students, parents, staff, and the community.
- Students thrive when supported, nurtured, and engaged by the community.
- In an environment that emphasizes school safety, everyone must be treated with kindness, dignity, and respect.
- Customer service must be a priority.
- Schools must prepare students to be team members and leaders, civic-minded, community contributors, and productive citizens in a global society.

District Profile

The Chariho Regional School District serves the communities of Charlestown, Hopkinton, and Richmond and includes four elementary schools, a middle school, a high school/career and technical center, and an alternative school. Approximately 3,250 prekindergarten through grade twelve students attend our schools. The District encompasses 127 square miles in southern Rhode Island that include oceanfront, rural, and suburban areas. The towns boast an abundance of golf courses, turf farms, and beaches. An ideal place to raise children, one only has to visit the tri-town area to develop a fondness for it. The three towns served by the District support high-quality public education.

| SCHOOL NAME | October 1, 2019 Enrollment |
|--|-----------------------------------|
| Ashaway Elementary School | 212 |
| Charlestown Elementary School | 240 |
| Hope Valley Elementary School (includes Annex) | 272 |
| Richmond Elementary School | 390 |
| Chariho Regional Middle School | 951 |
| Chariho Regional High School | 1122 |
| Chariho Alternative Learning Academy | 56 |

District Technology Initiatives

- 1) **Assessment:** Continuously improve the quality and accessibility of data available to teachers, enabling them to better consider both state and local formative and summative assessments to personalize instruction.
- 2) **Communication:** Expand communication and increase collaboration with families and the community using technology resources.
- 3) **Resources for Teaching and Learning:** Empower teachers and students with the tools and techniques needed to provide differentiated and individual learning experiences both in and out of school.
- 4) **Professional Development:** Provide professional development to all school community members, including parents/guardians, and educators with a focus on technology as a vehicle to improve teaching and learning.
- 5) **Infrastructure and Security:** Provide a safe and flexible environment for student learning.

Initiative 1

Assessment: Continuously improve the quality and accessibility of data available to teachers, enabling them to better consider both state and local formative and summative assessments to personalize instruction.

| Action Steps | Person(s) Responsible | Results | Timeline | Status |
|---|---|--|---|---|
| <i>What task will be done?</i> | <i>Who will lead it?</i> | <i>What is the outcome of the task?</i> | <i>By when?</i> | <i>In Development, In Progress, Ongoing, or Completed</i> |
| Maintain, review, and update online technology platforms for formative and summative assessments aligned with standards (CCSS, NGSS, etc....) in all content areas. | Director of Educational Technology and Information Systems, Assistant Superintendent, Administrative Team | <ul style="list-style-type: none"> Platforms for real-time data collection from CCSS and NGSS aligned formative and summative assessments have been identified. Teachers will create and revise assessments using identified platforms. Students will be assessed using these technology platforms. | Ongoing (2020-22) | Ongoing |
| Identify and implement technology platforms for Gr. K and 1 to capture student work and assessment data and corrective feedback for students. | Director of Educational Technology and Information Systems, Assistant Superintendent, Administrative Team Grade K and 1 assessment platform committee | <ul style="list-style-type: none"> Platforms for real-time data collection from formative and summative assessments. Teachers will create and revise assessments using identified platforms. Students will be assessed using these technology platforms. | Identify Spring 2020 Implement (2020-2021) | In Progress |
| Review the action plan to continuously improve the quality and accessibility of data available to all teachers, enabling them to better consider both state and local formative and summative assessments to personalize instruction. | Director of Educational Technology and Information Systems, Assistant Superintendent, Administrative Team, Data Specialist | <ul style="list-style-type: none"> Annually evaluate efforts to improve the quality and accessibility of data available to teachers. Collect data on the usage and accessibility of the available data. Teacher survey? | Ongoing (2020-2022) | Ongoing |

Initiative 2

Communication: Expand communication and increase collaboration with families and the community using technology resources.

| Action Steps | Person(s) Responsible | Results | Timeline | Status |
|--|---|---|--|---|
| <i>What task will be done?</i> | <i>Who will lead it?</i> | <i>What is the outcome of the task?</i> | <i>By when?</i> | <i>In Development, In Progress, Ongoing, or Completed</i> |
| Maintain and update a list of “district-approved” software/ resources/apps/hardware. | Director of Educational Technology and Information Systems Administrative Team | <ul style="list-style-type: none"> A Chariho Regional School District list of approved software/resources/ apps/hardware, published on the District website. | Annually. | Ongoing |
| Implement and effectively utilize new district website platform to improve communication and centralize our web-presence. | Director of Educational Technology and Information Systems, Administrative Team | <ul style="list-style-type: none"> Schools develop plans for their website Professional Development is delivered as needed to Faculty and staff who will update website Once website is fully developed a plan to update is created | EoY 2021 | In progress |
| Effectively use of social-media as a tool for effective communication with the broader community, in alignment with the district’s <i>Responsible Use of Technology Policy</i> . | Superintendent, Principals | <ul style="list-style-type: none"> Parents/guardians will be notified of and have easy access to effective social media communication, which could be measured by an increase in the number of followers. Students will be notified of and have easy access to effective social media communication, which could be measured by an increase in the number of followers. | | Ongoing |
| Increasing communication with parents about the use of technology at school and how they can protect and educate their students at home. | Principals, Assistant Superintendent, Director of Educational Technology | <ul style="list-style-type: none"> Create parent virtual learning website Update | Sept 2020 | In Progress |
| Collect data on all post grads-through a Chariho Alumni Survey. | Development Officer | <ul style="list-style-type: none"> Resource for program development, Foundation Development, curation of Chariho Community Communication platform. | EoY 2020 | In Progress |
| Staff to share effective implementation of innovative technology-related projects with the school or district community. | Development Officer Administrative Team | <ul style="list-style-type: none"> Identify source and means for sharing successes Implement process | Fall 2020 Spring 2021 | In Development |

Initiative 3:

Resources for Teaching and Learning: Empower teachers and students with the tools and techniques needed to provide differentiated and individual learning experiences both in and out of school.

| Action Steps | Person(s) Responsible | Results | Timeline | Status |
|---|---|---|----------------------------|---|
| <i>What task will be done?</i> | <i>Who will lead it?</i> | <i>What is the outcome of the task?</i> | <i>By when?</i> | <i>In Development, In Progress, Ongoing, or Completed</i> |
| Monitor and continuously evaluate the Chariho 1:1 initiative. | Director of Educational Technology and Information Systems, Administrative Team | <ul style="list-style-type: none"> Annual collection and presentation of data related to pre-identified benchmarks. | Annually | Ongoing |
| Implement, monitor and continuously evaluate procedures that impact Chariho's personalized learning initiative. | Assistant Superintendent, Director of Educational Technology and Information Systems, Administrative Team | <ul style="list-style-type: none"> Identify and then create procedures needed to protect student data and privacy. Evaluate instructional practices related to personalization of instruction. Provide professional development to grow the skills of faculty and staff so that personalization of instruction will be enhanced. | May 2016, then annually | In Progress |
| Review current technological hardware implementations grades K-4 to improve personalized instruction and assessment for all students. | Director of Educational Technology, Principals | <ul style="list-style-type: none"> Currently 1:1 from grades K-12 to support distance learning, Review budgetary impact and sustainability | Fall 2020 Fall 2020 | Ongoing |
| Develop RIDE approved Virtual Instructional Day Plan | Assistant Superintendent Director of Educational Technology and Information Systems Administrative Team | <ul style="list-style-type: none"> Approved Virtual Instructional Day Plan Monitor and adjust plan as needed | Spring 2020 Ongoing | In Development |
| Provide sufficient technology staffing structure (ex. workload and device to technician ratios). See Appendix C: | Director of Educational Technology and Information Systems | <ul style="list-style-type: none"> Analyze technology staffing structure Determine a timeline to correlate staffing adjustments with increase of devices. | Annually | Ongoing |

| Action Steps | Person(s) Responsible | Results | Timeline | Status |
|--|---|--|--------------------------|---|
| <i>What task will be done?</i> | <i>Who will lead it?</i> | <i>What is the outcome of the task?</i> | <i>By when?</i> | <i>In Development, In Progress, Ongoing, or Completed</i> |
| Inventory and recommend hardware (other than student devices) which will support student's effectiveness in problem solving, critical thinking, and collaboration (21st century skills). | Humanities and STEM Specialists and Library Media Specialists | <ul style="list-style-type: none"> • Maintain a list of existing hardware inventory which supports 21st century skills. • The list may include recommendations for future purchases. | Annually Annually | Ongoing |
| Provide sufficient technology staffing structure (ex. workload and device to technician ratios). See Appendix C: | Director of Educational Technology and Information Systems | <ul style="list-style-type: none"> • Analyze technology staffing structure • Determine a timeline to correlate staffing adjustments with increase of devices. | Annually | Ongoing |
| Review and recommend policies, structures and software that support the improved implementation of virtual and blended learning experiences, including course delivery by Chariho educators. | Director of Educational Technology and Information Systems Assistant Superintendent Administrative Team | <ul style="list-style-type: none"> • Review policies in place to determine if adjustments need to be made in support of virtual/blended learning. • Implement recommended structures and software for creating an improved virtual and blended learning experience. • Provide training, as needed, to Chariho educators selected to deliver online courses. | Annually | Ongoing |

Initiative 4:

Professional Development: Provide professional development to all school community members, including parents, and educators, on technology as a vehicle to improve teaching and learning.

| Action Steps | Person(s) Responsible | Results | Timeline | Status |
|--|---|---|--|--|
| <i>What task will be done?</i> | <i>Who will lead it?</i> | <i>What is the outcome of the task?</i> | <i>By when?</i> | <i>In Development, In Progress, Ongoing, or Complete</i> |
| Provide professional development designed to enhance educators skills to effectively analyze and use assessment data to improve personalized instruction to meet individual student needs, as well as for refining instructional programs. | Assistant Superintendent Principals District Professional Development Committee | <ul style="list-style-type: none"> All teachers will participate in trainings via School (Early Release Day) and District Professional Development Days Ongoing during Faculty Meetings, Department and Content Area Meetings, Common Planning Times, and District Elementary Grade Level and Subject Area Meetings as needed. | Ongoing | Ongoing |
| Provide learning and development opportunities for parents and community members to become familiar with the use of technology in the Chariho Regional School District. | Principals Library Media Specialists | <ul style="list-style-type: none"> Create opportunities at all schools for parent and community engagement in the use of technology. | At least annually | In Progress |
| Implement System of Personalized Professional Learning for educators to help them grow based on their self identified needs, the needs of the district, and the needs of their students. | Assistant Superintendent Principals District Professional Development Committee | <ul style="list-style-type: none"> Systems will be improved upon to provide personalized and differentiated professional development for the District Professional Development Days. Principals will begin to integrate systems to personalize and differentiate professional development for educators during Early Release Days. Professional Development Recertification Plan for RIDE Provide opportunity for presenters who frequently contribute to receive outside PD in order to continue their learning and reinvigorate what they bring back to the district. | Beginning with September, 2016 , then ongoing September 2020 | In Development |

| | | | | |
|--|--|--|--|----------------|
| <p>Teachers will take part in professional development on how to protect students' data and privacy.</p> | <p>Assistant Superintendent</p> <p>Master Teachers</p> | <ul style="list-style-type: none"> • Teachers will know how to protect students' data and privacy and will review related policy. • New Teacher Orientation will cover this Topic | <p>Beginning with September, 2016, then annually</p> <p>September 2020</p> | <p>Ongoing</p> |
|--|--|--|--|----------------|

Initiative 5:

Infrastructure and Security: Provide a safe and flexible environment for student learning.

| Action Steps | Person(s) Responsible | Results | Timeline | Status |
|---|--|--|-----------------|--|
| <i>What task will be done?</i> | <i>Who will lead it?</i> | <i>What is the outcome of the task?</i> | <i>By when?</i> | <i>In Development, In Progress, Ongoing, or Complete</i> |
| Identify available technology to support safety and security, including accurate documentation of student, staff, and visitor attendance. | Director of Educational Technology and Information Systems, Director of Buildings and Grounds, Principals | <ul style="list-style-type: none"> Software is identified and purchased that will meet the security needs of the district. | November, 2016 | In Progress |
| Students off task, on Monitoring content on computers (HS, CALA and MS?) | Director of Technology Principals | <ul style="list-style-type: none"> DyKnow HS/CALA? Go Guardian MS/CALA? Gaggle District? | | In Development |
| Flexible learning environments at all levels | Director of Technology Principals | <ul style="list-style-type: none"> Equitable access to flexible learning environments within classrooms and on school campuses (ex. alternative seating, outdoor learning spaces, etc.) Methods for teachers to provide timely feedback to students. | | In Development |
| Provide all students, PreK-22, with access to appropriate technology to capture student work and assessment data. | Director of Technology Principals | <ul style="list-style-type: none"> Determine technology tools that support pre-school learners Increase access to technology during itinerant classes | | In Development |

Appendix A: Student Device Recommendations

Devices

The Chariho Regional School District understands that the availability of reliable technology is of vital importance to the success of both our staff and students. As of the 2018-2019 School year, the district had fully implemented the current plan for device distribution, with grades 5-12 going 1:1 and grades K-4 at a 2:1 ratio. During the 2017-2018 school year, we did our first refresh of staff devices, since the 13" Macbook Pro was no longer available and the Macbook Air 13 was chosen for staff. During the 2018-2019 school year, a committee reviewed the high school student device and determined we would continue to use the Macbook Air as the device for students in grades 9-12. During the 2019-2020 school year, the 11" Macbook Air was no longer available, and the class of 2023 started to use the Macbook Air 13, the same device as the staff. The Macbook Air 13 will continue to be used for high school students as long as it is available.

Current 1:1 Devices In Use:

Faculty and Staff

- Certified Staff - MacBook Air 13
- School Administrators - 13" MacBook Air or 13" Dell Laptop
- Clerical Staff - Windows Desktop

Students (Updated September 2020)

- Grades K - 1:1 Device - Apple iPad
- Grades 1-8 - 1:1 Device - Dell Chromebook 11
- Grade 9-10 - 1:1 device - 13" Macbook Air
- Grades 11-12 - 1:1 devices - 11" MacBook Air

Total Counts of 1:1 Devices (2020-2021 School Year):

Apple iPad - 171

Dell Chromebook 11 - 1723

13" MacBook Air - 622

11" MacBook Air - 563

Appendix B: Network Infrastructure

The Chariho School District's network consists of a main campus (6 buildings) and four remote elementary schools. All buildings on the main campus are fiber connected (1 Gbps) back to the data center located in the Maintenance and Technology Building, which is the hub for the district. Each elementary school is connected back to the Maintenance and Technology Building through a 100 Mbps wide area network (WAN). Each building is designed with a main distribution frame (MDF) and intermediate distribution frames (IDF) where needed. Every IDF is connected to the MDF with fiber (10 Gbps). Additionally, all classrooms and most other rooms are equipped with a wireless access point (WAP), providing wireless access in every building across the district. All buildings access the Internet through a 1 Gbps connection provided by OSHEAN.

As the hub of the district, the main data center located in the Maintenance and Technology Building houses the bulk of the server infrastructure. To reduce the number of physical servers needed, the district uses a virtualized server environment. A battery backup unit and generator keep the servers running at all times. Additional servers are located in the high school, to be primarily used for backup and security. Each elementary school has one physical server as well as a phone gateway.

| BUILDING | MDF/IDF | WAP |
|--|----------------|------------|
| Maintenance and Technology Building | 1 | 2 |
| Administration Building | 1 | 6 |
| Chariho Regional High School | 6 | 84 |
| Chariho Regional Middle School | 4 | 79 |
| Chariho Area Career and Technical Center | 1 | 20 |
| Chariho Alternative Learning Academy | 1 | 16 |
| Ashaway Elementary School | 1 | 22 |
| Charlestown Elementary School | 3 | 27 |
| Hope Valley Elementary School | 1 | 23 |
| Richmond Elementary School | 2 | 36 |

Appendix C: Technology Personnel

Current Staffing

Technology Department:

- Director of Educational Technology and Information Systems
- Systems Administrator
- Data Specialist
- Technology Clerk
- Computer Technicians (3 full-time, 1 part-time)

Technology Fellows

- Technology Fellow (1)