

# Chariho Regional School District

## Technology Plan

2021-2024



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# District Technology Plan Committee Members

Name	Position
Shawn Cole	Director of Educational Technology and Information Systems
Michael Comella	Assistant Superintendent
Lindsay Bliven	Ashaway Elementary
Joel Watson	Chariho Alternative Learning Academy
Martha Dion	Chariho Career and Technical Center
Keith Moreau	Chariho Regional High School
Alison Ward	Hope Valley Elementary School
Paige Leddy	Richmond Elementary School
Eric O'Brien	Systems Administrator
Dorothy Fitzgerald	District Data Specialist

## **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 3,150 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.

<b>SCHOOL NAME</b>	<b>October 1, 2021 Enrollment</b>
Ashaway Elementary School	197
Charlestown Elementary School	246
Hope Valley Elementary School (includes Annex)	242
Richmond Elementary School	406
Chariho Regional Middle School	906
Chariho Regional High School	1096
Chariho Alternative Learning Academy	62

# 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"> <li>• Platforms for real-time data collection from CCSS and NGSS aligned formative and summative assessments have been identified.</li> <li>• Teachers will create and revise assessments using identified platforms.</li> <li>• Students will be assessed using these technology platforms.</li> </ul>	Ongoing (2021-24)	Ongoing
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"> <li>• Annually evaluate efforts to improve the quality and accessibility of data available to teachers.</li> <li>• Collect data on the usage and accessibility of the available data. Teacher survey?</li> </ul>	Ongoing (2021-24)	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"> <li>A Chariho Regional School District list of approved software/resources/ apps/hardware, published on the District website.</li> <li>Migrate to Rhode Island Security Privacy Alliance (RISPA)</li> </ul>	Annually. Fall 2022	Ongoing In Development
Improve utilization of the district website platform to centralize our web-presence.	Director of Educational Technology and Information Systems, Administrative Team	<ul style="list-style-type: none"> <li>The district and school websites will be a primary source of information for parents and students.</li> </ul>	Ongoing	Ongoing
Increase effectiveness of messaging through the school notification system.	Administrative Team	<ul style="list-style-type: none"> <li>Add ability to send text messaging to parents</li> <li>Review use of school notification system with administrative team.</li> </ul>	Fall 2021 Annually	Ongoing Ongoing



## 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"> <li>Annual collection and presentation of data related to pre-identified benchmarks.</li> </ul>	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"> <li>Identify and then create procedures needed to protect student data and privacy.</li> <li>Evaluate instructional practices related to personalization of instruction.</li> <li>Provide professional development to grow the skills of faculty and staff so that personalization of instruction will be enhanced.</li> </ul>	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"> <li>Currently 1:1 from grades K-12 to support distance learning,</li> <li>Review elementary classroom needs, including find replacement for aging Smartboard technology</li> <li>Move all K-4 classrooms to a Chromebook platform for consistency with the online curriculum software</li> </ul>	Fall 2020 Fall 2022 Fall 2022	Ongoing In Development In Progress
Implement RIDE approved online curriculum resources	Assistant Superintendent, Director of Educational Technology and Information Systems, Administrative Team	<ul style="list-style-type: none"> <li>ELA K-5 - Into Reading</li> <li>ELA 6-12 - StudySync</li> <li>Math K-8 - iReady</li> </ul>	Fall 2021 Fall 2021 Fall 2021	Complete Complete Complete
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"> <li>Analyze technology staffing structure</li> <li>Determine a timeline to correlate staffing adjustments with increase of devices.</li> </ul>	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"> <li>All teachers will participate in trainings via School (Early Release Day) and District Professional Development Days</li> <li>Ongoing during Faculty Meetings, Department and Content Area Meetings, Common Planning Times, and District Elementary Grade Level and Subject Area Meetings as needed.</li> </ul>	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"> <li>Create opportunities at all schools for parent and community engagement in the use of technology.</li> </ul>	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"> <li>Systems will be improved upon to provide personalized and differentiated professional development for the District Professional Development Days.</li> <li>Principals will begin to integrate systems to personalize and differentiate professional development for educators during Early Release Days.</li> <li>Professional Development Recertification Plan for RIDE</li> </ul>		In Development
Teachers will take part in professional development on how to protect students' data and privacy.	Assistant Superintendent Master Teachers	<ul style="list-style-type: none"> <li>Teachers will know how to protect students' data and privacy and will review related policy.</li> </ul>	Annually	Ongoing

## 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>
Review and improve technology available to support safety and security, both physical and virtual (Badge Access, Visitor Management, Surveillance, Cybersecurity)	<b>Director of Educational Technology and Information Systems, Director of Buildings and Grounds, Principals</b>	<ul style="list-style-type: none"> <li>• Upgrade surveillance capability</li> <li>• Review camera placement, video coverage, and surveillance software with school administrators</li> <li>• Develop a plan to upgrade and improve the district phone system</li> <li>• Review the Written Internet Security Program (WISP)</li> </ul>	<b>Summer 2022</b> <b>Annually</b> <b>Summer 2022</b> <b>Annually</b>	In Progress Ongoing In Development In Progress
Review and improve the data center, server, and network infrastructure to adequately support the technology needs of the district.	<b>Director of Educational Technology and Information Systems</b>	<ul style="list-style-type: none"> <li>• Upgrade wireless infrastructure</li> <li>• Upgrade virtual server and storage environment</li> <li>• Upgrade backup environment to mitigate risk of cyber attacks</li> <li>• Review network infrastructure and develop an upgrade plan.</li> <li>• Review physical server needs across the district</li> </ul>	<b>Fall 2021</b> <b>Summer 2022</b>  <b>Summer 2022</b>  <b>2022-2023</b>  <b>2022-2023</b>	Complete In Progress  In Development  In Development
Provide all students, PK-12, with access to appropriate technology devices to capture student work and assessment data.	<b>Director of Technology Principals</b>	<ul style="list-style-type: none"> <li>• All students in K-12 are provided with a device (1:1)</li> <li>• Review technology needs for Pre-K students</li> <li>• Review 9-12 device selection through device selection committee</li> </ul>	<b>Fall 2020</b>  <b>Fall 2022</b>  <b>Winter 2022</b>	Ongoing  In Development  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. When a global pandemic forced the district to move to distance learning in March of 2020, a device was provided to any student that needed it in grades PK-12. When school returned to session for the 2020-2021 school year, the district went 1:1 for grades K-12. The district provides approximately 3500 devices to support students and staff technology needs.

## Current 1:1 Devices In Use:

### Faculty and Staff

- Certified Staff - MacBook Air 13
- School Administrators - 13" MacBook Air or 13" Dell Laptop
- Support Staff (TA's and BMA's) - 13" Macbook Air or Chromebook
- Clerical Staff - Windows Desktop or laptop

### Students (Updated September 2020)

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

## 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 or 10 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 1 Gbps 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.

## 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)

Additional support

- Tech liaisons (1 per school) - teacher stipend position
- Central registration clerk