

Central High Technology Plan

Effectively Integrating Instruction and Technology

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Text in red or strikeouts indicates edits made to the initial document based on requested feedback and one or more subsequent reviews of the plan.

Central High Technology Plan

Foundations of Planning: School Mission and Goals

School Mission

We the members of the C.H.S. Community regard each student as a unique person with individual aptitudes, goals, and achievements. We are committed to providing the best educational opportunities for a multi-cultural, multi-lingual student body. We believe in offering students academic and elective vocational challenges and activities that develop in them competence and confidence to assume a productive and rewarding role in society.

School Goals

1. Foster respect and dignity for self-appreciation of individuals regardless of ethnicity, religion, nationality, and learning/physical abilities.
2. Prepare each student for excellence in academic achievement, higher education, future employment and community service.
3. Take each student at his/her level of achievement and proceed to develop his/her potential.
4. Provide a school climate that will challenge and engage each student in his/her development, growth, and socially acceptable patterns of behavior.
5. Guide students respect and appreciate their learning environment which will enhance school pride.
6. Assist students in computer literacy and in staying abreast of developing trends in technology to meet the demands of today's competitive workplace.
7. Nurture intellectual development in students to foster critical and independent thinking thus enabling students to make sound judgments and wise decisions.
8. Develop and stimulate interest in our Virgin Islands rich multi-cultural heritage and history.

Technology Vision Statement

In keeping with the school's mission and goals, we believe all students have the ability and capability to learn, and that technology can be used to enrich each student's learning experience. Technology is an indispensable tool in the pedagogical process. The effective integration of technology into every aspect of the learning environment will permit students to develop fundamental technological skills, as well as analytical, problem-solving, and implementation skills in preparation for real-world challenges and day-to-day activities. The integration of technology into the learning environment relies on the collaborative efforts of the administration, faculty, staff, and other key stakeholders.

Technology Plan Purpose

This technology plan has been developed to accomplish the following objectives:

- To establish a framework for continued technology planning in the school
- To serve as a roadmap to guide the effective integration of technology into the school curricula
- To identify the technology needs and aspirations of the school
- To guide the effective use of technology in support of a student-centered paradigm

Technology Plan Goals

Central High's Technology Goals underpin the school's Mission, Goals, and Technology Vision Statement, are responsive to the current and future technology needs of the school, and provide a framework to facilitate the effective integration of pedagogy and technology. Collectively, the goals promote educational excellence. CHS strives to achieve the following goals, presented in a non-prioritized order.

- Goal 1** Technology will be integrated effectively into every aspect of the learning environment.
- Goal 2** Students will use technology to brainstorm, engage in critical thinking, and to conduct problem-solving activities.
- Goal 3** To initiate efforts to acquire and maintain teachers and professional staff with experience in integrating technology into the learning environment to enrich students' learning experiences.
- Goal 4** To collaborate with key **community** stakeholders who will complement and support the school's technological goals and initiatives.
- Goal 5** To acquire and maintain adequate technological facilities that supports a student-centered paradigm, as well as faculty needs, for an effective learning environment.

Technology Plan Strategies

The following strategies are critical to the long-term sustenance and scalability of CHS's technological infrastructure, in support of a student-centered paradigm. In the upcoming section, below each strategy is/are the goal(s) to which it is linked. Following these are implementation project/tactics. These are specific actions which when taken will collectively help to underpin the strategy in support of the associated goals. The

repetition of a tactic within different strategies is an indication of the increased importance of that action.

- Strategy 1** Integrate technology into the curricula and school administration.
- Strategy 2** Align the integration of technology with the district's content standards.
- Strategy 3** Collaboratively enhance **in-house and external technology-related** initiatives and increase public awareness **of the technology infrastructure**.
- Strategy 4** Provide for technology-related professional development for faculty, staff, and the administration.
- Strategy 5** Enhance and maintain the school's technological infrastructure to ensure effective student-support services.
- Strategy 6** Identify funding sources to facilitate the integration of technology into the school infrastructure.

Strategy 1: Integrate technology into the curricula and school administration.

Goal Linkages: 1, 2, 3, 4, 5

Strategy Implementation Projects

- Tactic 1.1 The principal should encourage faculty and staff to attend the regularly and intermittently scheduled computer and technology-related class at the local curriculum center.
- Tactic 1.2 The principal should provide periodic and ongoing in-house training opportunities for faculty and staff to ensure basic and advanced competency on software and hardware with relevancy to their work duties.
- Tactic 1.3 The principal should actively encourage the faculty to apply for grants geared toward integrating technology into their classrooms.
- Tactic 1.4 Develop and deploy annual evaluative instruments to assess the degree to which technology has been integrated in regular classroom activities.
- Tactic 1.5 Distribute and explain the school's technology plan to faculty and staff.
- Tactic 1.6 Counselors shall ensure that each student successfully completes the requisite technology courses before she/he graduates.

- Tactic 1.7 CHS should maintain adequately equipped technology centers with immediate and continuous access to students, faculty and staff.
- Tactic 1.8 Develop and deploy annual evaluative instruments to assess the degree to which technology integration has improved student learning and performance.
- Tactic 1.9 Administrators shall encourage the use of technology to facilitate communication among teachers and students.
- Tactic 1.10 The principal should revise and update the school's instructional policies and practices to ensure the integration of technology into the curriculum
- Tactic 1.11 Administrators shall encourage teachers to regularly engage students through the use of technology to develop problem-solving skills.
- Tactic 1.12 Where feasible, equip each classroom with a minimum of one computer/laptop with network or wireless connectivity.
- Tactic 1.13 Equip each classroom with basic technology apparatus to include a television and a videocassette/digital video disk player and recorder.
- Tactic 1.14 On a quarterly basis, administrators shall evaluate and provide feedback on teachers' lesson plans for evidence of technology integration into students' learning activities.
- Tactic 1.15 Teachers will collaborate with the librarians and media specialist to utilize best resources effectively and engage students in analytical and critical-thinking assignments that require the use of the Internet, video, and other technologies, for problem-solving
- Tactic 1.16 Teachers will utilize technology to communicate with and to disseminate learning activities to students.
- Tactic 1.17 Teachers will use technology to promote and enrich student research, collaboration, and evaluation techniques.
- Tactic 1.18 Teachers will engage students through a variety of media through which students can share, learn, and communicate ideas.
- Tactic 1.19 Develop and disseminate to students and all school personnel an Acceptable Use of Technology policy.

Strategy 2: Align the integration of technology with the district's content standards.

Goal Linkages: 1, 2, 3, 4, 5

Strategy Implementation Projects

- Tactic 2.1 Acquire and review the most recent copy of the district's technology plan.
- Tactic 2.2 Form a committee to develop and implement school plans to guide the integration of technology into the curriculum.

Strategy 3: Collaboratively enhance in-house and external technology initiatives and increase public awareness of the technology infrastructure.

Goal Linkages: 4

Strategy Implementation Projects

- Tactic 3.1 Collaborate with the district librarian and other schools within the district on matters relating to technological initiatives.
- Tactic 3.2 The principal in conjunction with the school district should develop and maintain ongoing partnerships with local businesses and organizations to promote and facilitate an infusion of technology into the school infrastructure.
- Tactic 3.3 The principal can communicate with the Commissioner and Superintendent on developing a technology purchase plan so that students, faculty, and staff may purchase technology-related equipment at reduced costs from local and other vendors.
- Tactic 3.4 CHS should provide parental and community workshops at school to increase community awareness of the present technology infrastructure and technology needs of the school.
 - Tactic 3.4.1 Allocate time during PTA meetings to LMC personnel to inform parents/guardians of available resources and best practices for integrating learning and technology.
- Tactic 3.5 Maintain a Website to communicate information concerning school activities to the stakeholders.
- Tactic 3.6 Provide for parental and community participation and input in planning for the integration and ongoing assessment of technology within the school environment.

Strategy 4: Provide for faculty, staff, and administration technology-related professional development.

Goal Linkages: 3, 5

Strategy Implementation Projects

- Tactic 4.1 The principal should encourage faculty and staff to attend the regularly and intermittently scheduled computer and technology-related classes at the local curriculum center.
- Tactic 4.2 The principal should provide periodic and ongoing in-house training opportunities for faculty and staff to ensure basic and advanced competency on software and hardware with relevancy to their work duties.
- Tactic 4.3 The principal should encourage faculty and staff to enroll in technology-related classes at the local university or via the online medium.
- Tactic 4.4 Formulate a committee to conduct surveys about the technological competency of the faculty, staff, and administration to determine what type of training is needed.
- Tactic 4.5 CHS should ensure access to technology by providing and maintaining an adequately equipped technology center with immediate and continuous access to students, faculty, staff, and the administration.
- Tactic 4.6 The principal should actively encourage the faculty to apply for grants geared toward integrating technology into their classrooms.
- Tactic 4.7 CHS should ensure faculty involvement on technology initiatives that affect their use of technology in the classroom.
- Tactic 4.8 The principal should communicate with the Commissioner and Superintendent on developing a technology purchase plan so that students, faculty, and staff may purchase technology-related equipment at reduced costs from local and other vendors.
- Tactic 4.9 Install a minimum of one computer unit in each classroom with network connectivity.
- Tactic 4.10 Equip each classroom where feasible with basic technology apparatus, to include a television and a videocassette/digital video disk player and recorder.

Tactic 4.11 The administration should be aware of and should disseminate relevant local and national standards that address technology competencies for administrators, faculty, staff, and students.

Strategy 5: Enhance and maintain the school's technological infrastructure to ensure effective student-support services.

Goal Linkages: 1, 3, 4, 5

Strategy Implementation Projects

Tactic 5.1 The principal should ensure priority allocation of budgetary allotments to enhance, maintain, and improve the information technology infrastructure.

Tactic 5.2 Appoint a committee or designee (**technology coordinator**) to develop and update annually the inventory of the school's technological infrastructure, to include descriptions of current hardware, software, networking technologies and telecommunication devices.

Tactic 5.3 Develop and implement a structured plan to identify the technological needs of the school, as well as a methodology for acquiring, maintaining and updating the technology.

Tactic 5.4 The principal should provide periodic and ongoing in-house training opportunities for faculty and staff to ensure basic and advanced competency on software and hardware with relevancy to their work duties.

Tactic 5.5 CHS **through the LMC** should keep abreast of emerging technologies that have potential for maximizing the efficacy of the existing technological infrastructure.

Tactic 5.6 CHS should establish and deploy annual evaluative instruments to collect feedback from students, faculty, and staff on means of improving the technological infrastructure.

Tactic 5.7 **The LMC Administrators** should encourage the use of technology to facilitate communication among teachers and students.

Tactic 5.8 **The LMC in collaboration with District personnel should** provide periodic and ongoing training for school personnel in matters related to managing the school's technological infrastructure.

Strategy 6: Identify funding sources to facilitate the integration of technology into the school infrastructure.

Goal Linkages: 1, 4, 5

Strategy Implementation Projects

- Tactic 6.1 The principal or designee should develop a financial plan containing specific measures for ensuring the long-term sustainability of the technological infrastructure, through the coordination and identification of local, federal, and alternative funding.
- Tactic 6.2 The principal should ensure priority allocation of budgetary allotments to enhance, maintain, and improve the information technology infrastructure.
- Tactic 6.3 CHS should assess an annual technology fee for all students.
- Tactic 6.4 Teachers could assess a lab fee for all students enrolled in computer classes.
- Tactic 6.5 The principal should encourage the faculty and staff to research, identify, and apply for federal monies to fund technological initiatives.
- Tactic 6.6 The principal should encourage the faculty and staff to research, identify, and apply for grants that can be used for technological initiatives.
- Tactic 6.7 The principal in conjunction with the school district should develop and maintain ongoing partnerships with local businesses and organizations to promote and facilitate an infusion of technology into the school infrastructure.

Technology Plan Constraining Factor(s)

Public High School: As a public high school, the CHS is directly dependent upon the financial support of the local government for its existence and continued buoyancy. The financial constraints of the government, coupled with the fact that much of the funds allocated to schools are used for personnel, will impact many of the provisions outlined in this technology plan.

Appendix

National Educational Standards for Students

The technology foundation standards for students are divided into six broad categories. Standards within each category are to be introduced, reinforced, and mastered by students. These categories provide a framework for linking performance indicators within the Profiles for Technology Literate Students to the standards. Teachers can use these standards and profiles as guidelines for planning technology-based activities in which students achieve success in learning, communication, and life skills.

1 Basic operations and concepts

- Students demonstrate a sound understanding of the nature and operation of technology systems.
- Students are proficient in the use of technology.

2 Social, ethical, and human issues

- Students understand the ethical, cultural, and societal issues related to technology.
- Students practice responsible use of technology systems, information, and software.
- Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

3 Technology productivity tools

- Students use technology tools to enhance learning, increase productivity, and promote creativity.
- Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

4 Technology communications tools

- Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
- Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

5 Technology research tools

- Students use technology to locate, evaluate, and collect information from a variety of sources.
- Students use technology tools to process data and report results.
- Students evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.

6 Technology problem-solving and decision-making tools

- Students use technology resources for solving problems and making informed decisions.
- Students employ technology in the development of strategies for solving problems in the real world.