

Belleville Public Schools District



Technology Plan 2016-2019

The mission of the Belleville Public Schools supports the implementation of this Technology Plan by bringing representatives from the Informational Technology and Curriculum Departments together to review, modify, create, and support District policies and procedures. In an ongoing effort, the administrative team along with the Board and other stakeholder groups is charged with the following:

1. Examine and change technology-related policies and procedures on a continual basis to address the needs of instruction.
2. Meet to provide informational and instructional departments an opportunity to collaborate on determining the technology needs of the District.
3. Approve recommendations concerning the implementation and use of existing and emerging technologies.
4. Communicate recommendations requiring budgetary expenditures to the District Central Office.
5. Communicate policies and procedures to staff, parents, and students.
6. Communicate technology “wishes” to potential funding entities (e.g. HSA’s, grants, etc.).
7. Define professional development needs of the District relative to technology.
8. Encourage and support professional development and training for all employees.
9. Utilize researched-based information in all work related to instructional technology.

The vision of the Belleville Public Schools District provides an atmosphere of learning as an expectation for high achievement by all students, where learning is the most important tenet of the mission. We are a District and community of learners in which:

- Students, teachers, parents, community members, support staff, and administrators work collaboratively to create a positive learning environment to ensure all students are successful, competent, and productive.
- Teachers hold high expectations for all students.
- We rely on our diversity of thought, perspective, and peoples to build on our strengths.
- All students and staff feel empowered and supported.
- Teachers use best practices in every classroom to engage each child.
- Each school provides a safe, caring, and nurturing environment.
- Decisions are based on data and equity information.

Technology Goals

The District’s technology goals focus on utilizing cutting-edge technology that supports learning. These goals formally embrace our strategic plan. Our technology vision concentrates on ideas for how the classroom will look in the future and how all learners will thrive in a global, 21st Century society. The plan works to create a multimedia-rich environment and addresses innovative technology integration and ongoing professional development that meets the needs of all of our learners. Professional development will be essential so that the integration of technology in teaching and learning is seamless and based on best practices.

The following goals specify how the District will support the integration of technology in teaching and learning.

Technology Goal #1: Mobile Student Centered Computing

All learners will have access to technology in an anytime, anywhere, one-to-one computing environment.

Purpose: A one-to-one computing environment encourages creativity and innovation, facilitates communication and collaboration, supports research and access to digital content, increases critical thinking and problem solving opportunities, and promotes the proper use of information and technology. It further influences the progressive implementation of e-text in all formal areas to assist with funding and innovative learning techniques.

Action Steps and Timeline:

- Increase computing power to a one-to-one ratio (2016-2017).
- Implement laptops, tablet/touch devices, and/or handheld computing devices for all learners (2017-2019).

Resources:

- Desktops (some situations are best suited with a fixed desktop, such as a teacher work station to manage classroom sets of devices).
- Laptops.
- Tablet/touch devices.
- Online (e.g. cloud or network) collaboration and storage of files.
- District supported student email addresses.
- Wireless printing.
- Adequate informational technology support.
- Associated professional development.

Exemplars/Evidence of Positive Impact on Student Achievement:

- Increased student and teacher motivation and engagement in learning process.
- Evidence of student empowerment (increased ownership of learning).

Evaluation:

- Survey type of feedback from stakeholders (parents, students, and staff).
- Statistics of device usage and network access.

Technology Goal #2: Interactive Multimedia

All learners will have access to technology that allows for an interaction with a variety of information and facets of multimedia.

Purpose: Interactive multimedia applications enhance teaching and learning, facilitates a dynamic and engaging presentation of curriculum, and supports learning styles within the 21st Century classroom.

Action Steps and Timeline:

- Every classroom and media center will have an overhead and multimedia component (June 2019).

Resources:

- Document Cameras
- Data Projectors
- Speakers
- Tablets
- SMART Interactive Whiteboards (other?)
- Interactive Student Response Systems
- SMART Interactive Tables.
- On-going professional development.

Exemplars/Evidence of Positive Impact on Student Achievement:

- The amount of observable student engagement is increased.
- Increased use of technology.

Evaluation:

- Survey of teacher usage of multimedia related to the enhancement of instruction.
- Survey of student level of engagement relative to technology.
- Lesson evidence.

Technology Goal #3: Advanced Professional Development

Professional Development (PD) is a top priority for the success of all learners. PD must be ongoing and integrated within all content areas and grade levels.

Purpose: The purpose of professional development is to ensure individual growth and the success of the integration of technology in teaching and learning. PD inspires innovation, collaboration, and collegiality.

Action Steps and Timeline:

- PD is relevant, hands-on, and convenient for all adult learners.
- PD is supported by adequate technologies in order to allow staff to put new skills into practice.

Resources:

- Adequate instructional PD and technology support.
- Coordination of parents, businesses, and staff for additional PD opportunities.
- Contractual time dedicated to professional growth.

Exemplars/Evidence of Positive Impact on Student Achievement:

- Teaching and learning is enhanced through the use of technology.
- All learners are engaged in the teaching and learning process.
- Improved student performance.

Evaluation:

- Needs assessments will be used to gauge PD needs of the District, schools, administrators, and grade levels/content area teachers.
- Rubrics will be used to assess the technology knowledge and level of integration in teaching and learning.

Technology Goal #4: Electronic Resources

Electronic resources and tools to create such resources are available to support a 21st Century teaching and learning environment.

Purpose: Electronic resources provide learners with access to the increasing wealth of information. The creating and sharing of resources fosters a collaborative learning environment.

Action Steps and Timeline:

- Provide and support digital books, textbooks, and resources (ongoing).
- Provide and support electronic tools for the creation of electronic resources (ongoing).

Resources:

- Subscription-based databases.
- Electronic books, textbooks, and resources specific to grade-levels and content areas.
- Video sharing site (e.g. You Tube).
- Tools allowing for the creation and publication of resources (e.g. OnCourse, etc.).

Exemplars/Evidence of Positive Impact on Student Achievement:

- Student performance and reflection on using digital resources.

Evaluation:

- Gathering feedback on availability and impact on student achievement.



Technology Goal #5: Innovation

Creativity in all areas will be supported and encouraged.

Purpose: Cultivating and maintaining an environment that provides structural support to be creative and innovative which contributes to best practices.

Action Steps and Timeline:

- Provide for formal learning and sharing opportunities (ongoing).

Resources:

- Funding for innovative designs.
- Support for networking innovative practices.
- Develop technology devices (apps), certificates, particulars on web site, etc.

Exemplars/Evidence of Positive Impact on Student Achievement:

- Teaching is enhanced through the integration of innovative practices.
- Student engagement enhances academic achievement.
- Teachers and students apply technology in innovative ways to solve problems.

Evaluation:

- Innovative practices will be evaluated for the impact on enhancing instruction, engaging students, and empowering students to take pride of ownership in learning.

Coordination of Resources

District funding of technology will be supplemented through local, state, and federal resources and commercial grant opportunities.

Evaluation

An ongoing evaluation of this plan and plan progress will be conducted under the the supervision of the Office of the Superintendent of Schools.

The following evaluation measures will be recommended:

- Annual staff instructional technology survey.
- Annual review of information technology work orders.
- Focus group sessions related to specific instructional technology subjects with staff and community.

- Annual audits of information technology processes and performance.

Proposed Projects

- Stem Labs (HS+)
- Student run technology professional development opportunities for parents/community
- HS Library Lab
- Mobile Labs in all elementary schools
- 1 to 1 District laptop initiative
- e-text initiative
- Others TB