
Pennsylvania Department of Education



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF EDUCATION
333 MARKET STREET
HARRISBURG, PA 17126-0333

Educational Technology Plan

August 4, 2006

Entity: Brandywine Heights Area SD

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Core Purpose

Mission

Building a school-community partnership

Helping students become life-long learners

Adapting to the global society of the 21st century

Striving to reach our fullest potential

Dedicating ourselves to excellence in a safe educational environment

Vision

In keeping with our mission, we will provide a comprehensive, caring educational experience which:

Nurtures the unique talents of each individual;
Challenges and empowers all students through an academic and extra-curricular program that emphasizes problem solving, analytical and creative thinking;
Establishes the foundation for a fulfilled, socially responsible, life-long learner;
Develops confidence and capabilities to face the challenges of a rapidly changing world; and
Promotes a culture of respect which values diversity.

As partners, the school and community will provide sufficient resources and a talented, committed staff that create a safe, healthy, supportive environment where all individuals flourish.

Shared Values

District Shared Values

1. We believe that individuals are responsible and accountable for their learning, choices, and actions.
2. Because we believe students of today will live in a profoundly different future we must prepare them to be life long learners and emphasize honesty and integrity as principles of conduct.
3. A healthy partnership among the home, the school district, and the community has a direct correlation to the quality of the educational system.
4. We believe that each individual is worthwhile and has unique gifts and talents that need to be nurtured.
5. We believe in providing an excellent program committed to continuous improvement that addresses the educational needs of all students in a safe and supportive environment.
6. All people can learn and the limits of individual learning are unknown.
7. We believe that students need to see themselves as life long learners who will develop productivity, responsibility and independence as citizens.
8. We believe that all avenues must be explored in order to achieve success with all learners.

Needs Assessment

The following needs were identified through the use of educator and community surveys as well as information gathered from the Pennsylvania Department of Education website.

Telecommunication Services

- Continue to seek E-rate funding for eligible services.
- Continue to examine and expand bandwidth, as needed, for District use.
- Update, design, and maintain the district website.

Technology Infrastructure

- Update/upgrade School networks as needed to support technology requirements
- Create a sub committee to search for and compile grants to acquire hardware and/or software for the district.

Technology Support

- Increase the number of technology support specialists/coaches.

Professional Competency

- Increase computer literacy and technology proficiency.
- Flexible instructor in-servicing to promote teacher participation in technology related service.
- Targeted and sustained technology integration training and professional development for instructors.

Educational Materials/Software/Media

- Obtain educational materials that addresses the needs of the curriculum.

Community Partnering

- Educate the community on the value of technology in the classroom.

Goals and Strategies

Goal: Best Practices

Description: Further implement best research and practices, along with state standards and anchors, to improve curricula, instruction, assessment, and resources on a district-wide basis to improve student motivation and learning.

Strategy: Professional Development

Description: Expand our professional development programs to: 1) focus on student development needs (differentiated instruction); 2) emphasize meeting the needs of all students in the classroom; and 3) establish a faculty wellness program that encompasses professional and personal growth and development.

Educational Practices: Continuous Learning Ethic, Quality Leadership, Quality Teaching

| Activity | Description | Evaluation Procedure | | |
|--------------------------------|---|--|--------|-----------|
| Individual Technology Training | Provide opportunities for educators to strengthen their own technological skills by engaging in self-directed, technology-based activities related to their teaching assignments. | Individual faculty reflection and supervision by Administrators. | | |
| Person Responsible | Timeline for Implementation | | | Resources |
| Ross McGovern | Start | n/a | Finish | n/a |
| | | | | \$0.00 |

| Activity | Description | Evaluation Procedure | | |
|-------------------------|---|--|--------|-----------|
| New Technology Training | Provide technology training to educators for new district hardware and software as needed, based upon on-going technology updates and improvements. | Individual faculty reflection and supervision by Administrators. | | |
| Person Responsible | Timeline for Implementation | | | Resources |
| Ross McGovern | Start | n/a | Finish | n/a |
| | | | | \$0.00 |

| Activity | Description | Evaluation Procedure | | |
|---------------------|--|--|--------|-----------|
| Technology Training | Provide increased technology training opportunities for educators to develop and enhance computer skills. This includes basic training for existing and new district software programs based on need and individual ability. | Individual faculty reflection and supervision by Administrators. | | |
| Person Responsible | Timeline for Implementation | | | Resources |
| Ross McGovern | Start | n/a | Finish | n/a |
| | | | | \$0.00 |

Goal: TECHNOLOGY INTEGRATION

Description: Further integrate technology into curriculum and instruction, school management, and parent communication.

Strategy: Community Partnering

Description: To look for opportunities within the community to foster Technology partnerships.

Educational Practices: Artful Use of Infrastructure, Continuous Learning Ethic

| Activity | Description | Evaluation Procedure |
|-------------------------|--------------------------------------|--------------------------------|
| Technology Partnerships | To look for opportunities within the | Supervision by Administrators, |

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|---------------------------|---|--|--------------------------|
| | community to foster Technology partnerships. To educate the community on the use of technology and how we incorporate it in to the daily educational experience. To look for opportunities within the community to perform technology training. | Director of Instructional Technology and Technology Committee members. | |
| Person Responsible | Timeline for Implementation | | Resources |
| Ross McGovern | Start | n/a | Finish n/a \$0.00 |

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|---------------------------|--|---|--------------------------|
| Activity | Description | Evaluation Procedure | |
| Use of Technology | To educate the community on the use of technology within the district via announcements, newsletters and web-postings. | Supervision by Administrators, Director of Instructional Technology and Technology Committee members. | |
| Person Responsible | Timeline for Implementation | | Resources |
| Ross McGovern | Start | n/a | Finish n/a \$0.00 |

Strategy: Curricular Integration

Description: To develop a K-12 plan to infuse technology into the curriculum and assessment plans of the district.

Educational Practices: Artful Use of Infrastructure, Continuous Learning Ethic, Quality Leadership, Quality Teaching

| | | | |
|---------------------------|--|--|-------------------------------|
| Activity | Description | Evaluation Procedure | |
| Increase Technology Use | To acquire and expand the use of online tools to help support integration of technology in core subject areas. | Supervision by Administrators, Director of Instructional Technology with input from Teachers and Technology Committee members. | |
| Person Responsible | Timeline for Implementation | | Resources |
| Ross McGovern | Start | n/a | Finish n/a \$75,000.00 |

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|----------------------------------|--|--|-------------------------------|
| Activity | Description | Evaluation Procedure | |
| Standardize Educational Software | To standardize educational software and to acquire new software as needed based on the curriculum cycle. | Supervision by Building Administrators, Director of Instructional Technology, with input from Teachers and Technology Committee members. | |
| Person Responsible | Timeline for Implementation | | Resources |
| Ross McGovern | Start | n/a | Finish n/a \$28,000.00 |

Strategy: Professional Development

Description: To develop a K-12 plan to infuse technology into the curriculum and assessment plans of the district.

Educational Practices: Artful Use of Infrastructure, Continuous Learning Ethic, Quality Leadership, Quality Teaching

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|---|------------------------------------|-----------------------------|------------------|
| Activity | Description | Evaluation Procedure | |
| To create a building level mentor support system. | | | |
| Person Responsible | Timeline for Implementation | | Resources |

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|------------|--------------|-----|---------------|-----|--------|
| Ruth Bloom | Start | n/a | Finish | n/a | \$0.00 |
|------------|--------------|-----|---------------|-----|--------|

Strategy: Technology Infrastructure

Description: Technology Infrastructure can be described as the backbone of our network. It not only includes the Servers and the wires, but also has many other key components. The Technology Infrastructure of our District is the means by which we are able to convey and share Electronic Communications, Data and other Electronic Services.

Educational Practices: Artful Use of Infrastructure, Continuous Learning Ethic, Quality Teaching

| Activity | Description | Evaluation Procedure |
|------------------------------|--|---|
| Educational Software Library | Maintain and keep current a library that encompasses all of the Districts educational software. Annually evaluate core and special section software to be upgraded or replaced as necessary. | Supervision by Building Administrators and Director of Instructional Technology, with input from Teachers and Technology Committee members. |
| Person Responsible | Timeline for Implementation | |
| Ross McGovern | Start | n/a |
| | Finish | n/a |
| | Resources | |
| | \$0.00 | |

| Activity | Description | Evaluation Procedure |
|----------------------------------|---|---|
| Elementary Technology Integrator | Increase the number of technology support personnel available at the elementary level. The elementary division is the starting point for students to begin to use technology on a regular basis. A full-time Technology Integration Instructor will strengthen the technology presence at the elementary level and support teachers by serving as an instructor mentor. | Supervision by Building Administrators and Director of Instructional Technology, with input from Teachers and Technology Committee members. |
| Person Responsible | Timeline for Implementation | |
| Ross McGovern | Start | n/a |
| | Finish | n/a |
| | Resources | |
| | \$150,000.00 | |

| Activity | Description | Evaluation Procedure |
|-------------------------------------|---|---|
| Technology Inventory and Evaluation | To evaluate and update the district's technology on an annual basis to accommodate the exponential growth of the Technology industry. | Supervision by Building Administrators and Director of Instructional Technology, with input from Teachers and Technology Committee members. |
| Person Responsible | Timeline for Implementation | |
| Ross McGovern | Start | n/a |
| | Finish | n/a |
| | Resources | |
| | \$0.00 | |

| Activity | Description | Evaluation Procedure |
|---------------------------|--|---|
| Technology Sub-Committee | To create a sub committee to search for and compile software to support the further integration of technology into district curricula. | Supervision by Building Administrators and Director of Instructional Technology, with input from Teachers and Technology Committee members. |
| Person Responsible | Timeline for Implementation | |
| Ross McGovern | Start | n/a |
| | Finish | n/a |
| | Resources | |
| | \$0.00 | |

Strategy: Telecommunication Services

Description: Telecommunication Services are more than just the Telephone. Telecommunication Services provide the means for our District to use the Internet, maintain a website that our community members can use to access and acquire useful information about the District. Telecommunication Services provide us the ability to link to the outside world.

Educational Practices: Artful Use of Infrastructure, Continuous Learning Ethic, Quality Teaching

| Activity | Description | Evaluation Procedure |
|--|---|---|
| Expanded Use of Telecommunication Services | To continue to expand the use of Telecommunications services. The use of the Internet and Distance Learning can no longer be thought of as just browsing or surfing. Over the wire instruction opens the doors to the entire world for any classroom situation. | Supervision by Building Administrators and Director of Instructional Technology, with input from Teachers and Technology Committee members. |
| Person Responsible | Timeline for Implementation | |
| Ross McGovern | Start n/a | Finish n/a |
| | | Resources \$0.00 |

| Activity | Description | Evaluation Procedure |
|---|---|---|
| Update, Design, and Maintain the District Website | The District Web Site in its current configuration is 7 years old. The Website is need of a more modern look with easier navigation. To accomplish this we need to upgrade the level of web server that is being used as well as new software to allow the increased use of graphics and text. The Website will also be used as a repository for "How to" videos. With the addition of video streaming an increase in bandwidth will be necessary in the near future. | Supervision by Building Administrators and Director of Instructional Technology, with input from Teachers and Technology Committee members. |
| Person Responsible | Timeline for Implementation | |
| Ross McGovern | Start n/a | Finish n/a |
| | | Resources \$0.00 |

Staff Development

The instructional staff has the opportunity to attend at least five in-services per year that could range from increasing their knowledge of existing systems or learning about new hardware/software technology. From these in-services the teachers are given the technical know how to then be able to enforce the use of technology by students, using file servers, on line studies and searches, etc. The use of the Internet has greatly increased over the last two to three years as the faculty becomes more comfortable with their own "surfing" abilities; they encourage the students to use the internet to a greater degree as well.

Budget

Summary: Potential Funding Distribution

| Funding Source | Year 1 | Year 2 | Year 3 | Total |
|-----------------------------|--------------------|---------------------|---------------------|---------------------|
| 010 - ADMINISTRATIVE BUDGET | \$33,000.00 | \$110,000.00 | \$110,000.00 | \$253,000.00 |
| TOTAL | \$33,000.00 | \$110,000.00 | \$110,000.00 | \$253,000.00 |

Goal: Best Practices

Further implement best research and practices, along with state standards and anchors, to improve curricula, instruction, assessment, and resources on a district-wide basis to improve student motivation and learning.

| Professional Development | Year 1 | Year 2 | Year 3 | Total | Funding Source |
|--------------------------|---------------|---------------|---------------|---------------|----------------|
| TOTAL | \$0.00 | \$0.00 | \$0.00 | \$0.00 | |

Goal: TECHNOLOGY INTEGRATION

Further integrate technology into curriculum and instruction, school management, and parent communication.

| Community Partnering | Year 1 | Year 2 | Year 3 | Total | Funding Source |
|----------------------|--------|--------|--------|-------|----------------|
| | | | | | |

| Curricular Integration | Year 1 | Year 2 | Year 3 | Total | Funding Source |
|----------------------------------|-------------|-------------|-------------|-------------|-----------------------------|
| Increase Technology Use | \$25,000.00 | \$25,000.00 | \$25,000.00 | \$75,000.00 | 010 - ADMINISTRATIVE BUDGET |
| Standardize Educational Software | \$8,000.00 | \$10,000.00 | \$10,000.00 | \$28,000.00 | 010 - ADMINISTRATIVE BUDGET |

| Professional Development | Year 1 | Year 2 | Year 3 | Total | Funding Source |
|--------------------------|--------|--------|--------|-------|----------------|
| | | | | | |

| Technology Infrastructure | Year 1 | Year 2 | Year 3 | Total | Funding Source |
|----------------------------------|--------|-------------|-------------|--------------|-----------------------------|
| Elementary Technology Integrator | \$0.00 | \$75,000.00 | \$75,000.00 | \$150,000.00 | 010 - ADMINISTRATIVE BUDGET |

| Telecommunication Services | Year 1 | Year 2 | Year 3 | Total | Funding Source |
|----------------------------|--------|--------|--------|-------|----------------|
| | | | | | |

| | | | | | |
|--------------|--------------------|---------------------|---------------------|---------------------|--|
| TOTAL | \$33,000.00 | \$110,000.00 | \$110,000.00 | \$253,000.00 | |
|--------------|--------------------|---------------------|---------------------|---------------------|--|

| | | | | | |
|--------------------|--------------------|---------------------|---------------------|---------------------|--|
| GRAND TOTAL | \$33,000.00 | \$110,000.00 | \$110,000.00 | \$253,000.00 | |
|--------------------|--------------------|---------------------|---------------------|---------------------|--|

Monitoring

The monitoring of technology use occurs regularly and is weighted through the use of collected data from students and staff.

Bandwidth utilization is monitored for Internet use. File server utilization is monitored for storage capacity and utilization.

We have implemented the use of a database website for staff evaluations of in-services and technology in general.

Evaluation

The BHASD Office of Curriculum and Instruction, with the support of the Instructional Technology Department, will conduct effective instructional technology planning. There is an annual evaluation of data to measure the level of infusion of technology into curriculum materials.

The BHASD Technology Plan will be reviewed annually with student data, school based assessments, and a revision of the overall needs assessment. The Technology Committee will revise the Technology Plan as needed. The annual assessments of the plan focus on the extent to which the plan is being implemented with an emphasis on the impact of technology on student learning.