



Lawrence Public Schools
Dr. Mary Lou Bergeron, Interim Superintendent

Lawrence Public Schools

TECHNOLOGY PLAN

2009 — 2012

**Lawrence Public Schools
District Profile**

Lawrence Public schools
Instructional Technology
255 Essex Street
Lawrence, Massachusetts 01841

Phone: 978.975.5905 ext. 330

Fax: 978.975.3072

List of Schools in District

Name	Type	Grades
Arlington Elementary School	Elem.	K- 5
Arlington Middle School	MS	6 - 8
Breen School	Early Childhood	PreK-K
Bruce School	Elem./MS	1-8
Frost Elementary School	Elem.	K-4
Frost Elementary School	Middle School	5-8
Guilmette School Elementary	Elem	1-4
Guilmette Middle School	Middle School	5-8
Hennessey School	Early Childhood	PreK-K
Lawlor School	Early Childhood	K
Lawrence High School Campus	High School	9 - 12
<ul style="list-style-type: none"> • Business, Management and Finance • Health and Human Services • Humanities & Leadership Development • International High School • Mathematics, Science & Technology • Performing and Fine Arts 		
Leahy School	Elementary	K-5
Leonard School	Middle School	6-8

North Common Educational Complex		
• Adult Learning Center	ABE, ELL	Various
• High School Learning Center	High School	9-12+
• School for Exceptional Studies		
New Beginnings	Alternative	1-8
High School Programs	Alternative	9 - 12
Oliver School	Elem./MS	1-8
Parthum Elementary School	Elem	K-4
Parthum Middle School	MS	5-8
South Lawrence East Elementary School	Elem	1-4
South Lawrence East Middle School	MS	5-7
Tarbox School	Elementary	K-5
Wetherbee School	Elem./MS	1-8

Planning Team

Susan Dowd, Teacher, Leahy School

Elizabeth Ann Green, Teacher, Lawrence High School

Janice Solomon, Supervisor of Title I, Central Office - LPS

Kathleen Wetmore, Teacher, Lawrence High School

Long Nguyen, Direct of Information Services, Central Office - LPS

*Patricia Knox, Supervisor of Instructional Technology, Central Office - LPS

Veronica Harris, Facilitator, Accountability & Assessment, Lawrence Public Schools

Donna Chevaire, Supervisor of Mathematics

*Chair

Vision

The new National Educational Technology Plan has seven major action steps and recommendations:

1. *Strengthen Leadership*

- Invest in leadership development programs to develop a new generation of tech-savvy leaders at every level.
- Retool administrator education programs to provide training in technology decision making and organizational change.
- Develop partnerships between schools, higher education and the community.
- Encourage creative technology partnerships with the business community.
- Empower students' participation in the planning process.

2. *Consider Innovative Budgeting*

- Determine the total costs for technology as a percentage of total spending.
- Consider a systemic restructuring of budgets to realize efficiencies, cost savings and reallocation. This can include reallocations in expenditures on textbooks, instructional supplies, space and computer labs.
- Consider leasing with 3-5 year refresh cycles.
- Create a technology innovation fund to address and respond to SOA volatility

3. *Improve Teacher Training*

- Improve the preparation of new teachers in the use of technology.
- Ensure that every teacher has the opportunity to take online learning courses.
- Improve the quality and consistency of teacher education through measurement, accountability and increased technology resources.
- Ensure that every teacher knows how to use data to personalize instruction. This is marked by the ability to interpret data to understand student progress and challenges, drive daily decisions and design instructional interventions to customize instruction for every student's unique needs.

4. *Support E-Learning and Virtual Schools*

- Provide every student access to e-learning.
- Enable every teacher to participate in e-learning training.
- Encourage the use of e-learning options to meet *No Child Left Behind* requirements for highly qualified teachers, supplemental services and parental choice.
- Explore creative ways to fund e-learning opportunities.
- Develop quality measures and accreditation standards for e-learning that mirror those required for course credit.

5. *Encourage Broadband Access*

- Thoroughly evaluate existing technology infrastructure and access to broadband to determine current capacities and explore ways to ensure its reliability.
- Encourage that broadband is available all the way to the end-user for data management, online and technology-based assessments, e-learning, and accessing high-quality digital content.
- Encourage the availability of adequate technical support to manage and maintain computer networks, maximize educational uptime and plan for future needs.

6. *Move Toward Digital Content*

- Ensure that teachers and students are adequately trained in the use of online content.
- Encourage ubiquitous access to computers and connectivity for each student.
- Consider the costs and benefits of online content, aligned with rigorous state academic standards, as part of a systemic approach to creating resources for students to customize learning to their individual needs.

7. *Integrate Data Systems*

- Establish a plan to integrate data systems so that administrators and educators have the information they need to increase efficiency and improve student learning.
- Use data from both administrative and instructional systems to understand relationships between decisions, allocation of resources and student achievement.

- Ensure interoperability. For example, consider School Interoperability Framework (SIF) Compliance Certification as a requirement in all RFPs and purchasing decisions.
- Use assessment results to inform and differentiate instruction for every child.

This plan conveys next steps in using technology more productively and in weaving it more thoroughly into daily learning and teaching.

VISION

In the Lawrence Public Schools, all members of the learning community will be technologically literate, life-long learners. Learners will be able to interact successfully in a technological environment to achieve their personal, educational and workplace goals. They will skillfully use technology to access, retrieve, and use information school-wide, community-wide, nationally, and internationally.

BELIEFS

- Skillful use of technology supports the development of process skills such as flexibility, adaptability, critical thinking, problem solving and collaboration which are essential to success in our rapidly changing information age.

Technology allows us to better serve the diverse learning needs of our students and supports Universal Design for Learning (UDL).

- Our schools must prepare students to be lifelong learners who are responsible for their own learning, skilled in accessing and processing information, confident in using technological tools, able to solve complex problems alone or collaboratively, capable of being creative and innovative, and able to communicate locally, nationally, and world-wide.

RATIONALE

To accomplish our vision for increased student learning with the use of technologies, our plan enables the following:

EQUAL ACCESS FOR THE LEARNING COMMUNITY

- Establishes basic technological networking capabilities provided at all sites.
- Assures that all students, staff and sites will be provided with and have equal access to minimum standards of hardware and software.
- Implements grade level technology goals identified to insure equity of delivery to all students.
- Enables 24-7 access to school learning resources, classroom lessons and assignments, school information and electronic messages for students, parents, staff, and community members.
- Provides the learning community with greater opportunity for interaction, collaboration and information exchange. The school will become a vital meeting place for a host of community services.
- Promotes equitable access to learning technology as a community investment and encourages an active partnership among schools, businesses, homes and the community.

DEVELOPMENT OF LIFELONG LEARNERS

- Assures skillful use of technology to support the development of lifelong learning skills and process skills such as: flexibility, adaptability, critical thinking, problem solving, and collaboration, which are essential to success in our rapidly changing information age.

INTEGRATION OF TECHNOLOGY IN THE CLASSROOM

- Expands classroom tools for teaching and learning.
- Provides for the integration of multiple resources for existing and emerging curriculum.
 - Enables the learning community to communicate more effectively, access and process information, and work productively.
 - Links the classroom with educational resources within the building, community and worldwide.
 - Creates a collaborative environment for project oriented activities.
 - Increases the productivity of students as they work toward attaining learning outcomes.
 - Encourages the use of multimedia tools enabling students to become active and experiential learners.
 - Enables learning to involve partnerships within the school, among schools, and with other organizations.

BUILD A CULTURE OF CONTINUOUS LEARNING FOR STAFF

- Develops school-based technology planning and learning.
- Builds online learning opportunities.
- Incorporates learning new curriculum (math, writing, science, etc.) with technology applications.
 - Facilitates access to collegial support and best practice information from a wide variety of resources.
 - Expands the variety of teaching tools to differentiate and support diverse learners.
 - Supports productive and efficient management of student assessment and portfolio data.
 - Increases support for emerging instructional strategies: inter-disciplinary, collaborative, and active learning options.
 - Enables curriculum, instruction and assessment to be developed and aligned with each other.
 - Provides a system that helps students, parents and teachers work together to support educational outcomes.
 - Pilots new teaching strategies, technologies, and instructional resources.
 - Investigates emerging possibilities for electronic learning resources such as ebooks, handhelds, and tablets for teachers and students.

LEARNING GOALS

Education in Lawrence Public Schools is a shared, life-long experience in which the diverse needs of all individuals are met. This experience, provided in a safe, supportive environment, will ensure success in a changing world.

Education in the Lawrence Public Schools is guided by our Comprehensive Education Plan (CEP), which lists the following seven goals:

GOAL ONE: The Essential Learning Outcomes are taught and demonstrated using defined standards.

GOAL TWO: Programs and instruction meet the individual needs of all students.

GOAL THREE: Ongoing assessment of student learning, program results, and staff performance is understood and used to support continuous improvement.

GOAL FOUR: Schools, programs and services use improvement plans that are developed collaboratively and are consistent with the District's strategic plan.

GOAL FIVE: The learning and work environment is safe, supportive, and nurturing for all.

GOAL SIX: Understanding and respect for human diversity are taught and practiced.

GOAL SEVEN: Schools, families, and the community interact as partners to strengthen opportunities to learn.

Lawrence Public Schools expects its graduates to achieve these "Essential Learning Outcomes" and to be:

Knowledgeable Individuals who read with comprehension; write with skill; communicate effectively and responsibly; and demonstrate academic proficiency in the arts, geography, mathematics, civics and history, health and fitness, social sciences, and physical and life sciences

Quality Producers who successfully apply academic, intellectual, artistic, and practical learning to create quality products and performances

Effective Communicators who apply their communication skills and processes effectively in a variety of ways and settings

Competent Thinkers who are able to think analytically and creatively solve problems and make decisions

Effective Collaborators who can work successfully with diverse individuals and groups

Responsible Citizens who are informed and apply knowledge to improve the quality of their lives and communities

Life-Long Learners who are self-directed and apply learning confidently and successfully to new and different situations and tasks in preparation for a changing world and workplace.

TECHNOLOGY STANDARDS FOR ALL STUDENTS

The standards were derived from the *National Educational Technology Standards for Students* from the International Society for Technology in Education (ISTE).

The *Lawrence Public Schools Technology Standards for All Students* cover five areas for all students in grades K-12:

- basic technology operations and concepts
- responsible and ethical use
- effective and creative communication
- thinking, learning, and producing
- research, problem-solving, and decision-making

Performance indicators are listed for each standard. Additionally, performance indicators are written for four grade-level clusters: primary, intermediate, middle school and high school.

Technology Standards for All Students **Lawrence Public Schools**

Students at all grade levels, K-12 will:

1. Understand basic technology operations and concepts.

- 1.1 Demonstrate a sound understanding of the nature and operation of technology systems, including networked environments.
- 1.2 Develop sufficient technical skills to successfully use, troubleshoot and maintain the technology and telecommunications tools in daily life, work situations and learning environments.
- 1.3 Discriminate among a variety of technologies and media to select appropriate technology for specific purposes.

2. Use technology responsibly and ethically.

- 2.1 Practice responsible use of technology systems, information, and software.
- 2.2 Understand the ethical, cultural, environmental, and societal implications of technology and telecommunications.

3. Use technology to communicate effectively and creatively.

- 3.1 Use a variety of media and formats to communicate information and ideas effectively to multiple audiences.
- 3.2 Use telecommunications to collaborate, publish, and interact with peers, experts and other audiences.
- 3.3 Create, produce, and present ideas in a variety of forms, including text, video, graphics, and conversation.

4. Use technology for thinking, learning, and producing.

- 4.1 Enhance content-area learning with technology-infused lessons.
- 4.2 Construct new meaning and knowledge by synthesizing information.
- 4.3 Use computer modeling, image processing, simulations, and data manipulation to develop critical thinking and understanding.

4.4 Use a variety of tools to produce quality products.

5. Use technology for research, problem solving, and decision-making.

5.1 Use technology to locate, evaluate, collect, and organize information from a variety of sources.

5.2 Review information analytically and transform it into useful knowledge to solve problems.

5.3 Work with a group to collaboratively solve a problem and present results.

**Technology Standards for All Students--Lawrence Public Schools
Grades K-2: Performance Indicators**

1. Understand basic technology operations and concepts.

1.1 Demonstrate a sound understanding of the nature and operation of technology systems, including networked environments.

- Use appropriate terminology in describing technology
- Develop skills in basic computer operations (keyboard functions, logon, logoff, mouse techniques).

1.2 Develop sufficient technical skills to successfully use, troubleshoot and maintain technology and telecommunications tools in daily life, work situations and learning environments.

- Successfully operate computers, VCRs, printers, audiotapes and other technologies.

1.3 Discriminate among a variety of technologies and media to select appropriate technology for specific purposes.

- Use multimedia resources (interactive books, software, encyclopedias) to support learning.

2. Use technology responsibly and ethically.

2.1 Practice responsible use of technology systems, information, and software.

- Cooperate with others while using technology.
- Care for and safely operate equipment.

2.2 Understand the ethical, cultural, environmental and societal implications of technology and telecommunications.

- Demonstrate positive and ethical social behavior when using technology (follow rules).

3. Use technology to communicate effectively and creatively.

3.1 Use a variety of media and formats to communicate information and ideas

effectively to multiple audiences.

- Create documents using word processing and desktop publishing software.

3.2 Use telecommunications to collaborate, publish and interact with peers, experts and other audiences.

- Share information with others using data networks and telecommunications (telephone, email with class).

3.3 Create, produce and present ideas in a variety of forms, including text, video, graphics and conversation.

- Enhance documents with graphics, including clip art and original artwork, using paint, chart and draw programs.
- Create presentations using technology.

4. Use technology for thinking, learning and producing.

4.1 Enhance content-area learning with technology-infused lessons.

Use a variety of technology resources to support learning

4.2 Construct new meaning and knowledge by synthesizing information.

4.3 Use computer modeling, image processing, simulations and data manipulation to develop understanding.

- Make a graph to sort and understand information.

4.4 Use a variety of tools to produce quality products.

5. Use technology for research, problem solving and decision-making.

5.1 Use technology to locate, evaluate, collect and organize information from a variety of sources.

- Use key words as a search strategy.
- Use technology to locate, evaluate and collect information (electronic encyclopedias, library catalog, selected Internet sites, magazines).

5.2 Review information analytically and transform it into useful knowledge to solve problems.

- Use technology to research a problem or make a decision.

5.3 Work with a group to collaboratively solve a problem and present results.

- Work with a team to find information, make decisions and create a product.

Technology Standards for All Students--Lawrence Publics Schools Grades 3-5: Performance Indicators

1. Understand basic technology operations and concepts.

1.1 Demonstrate a sound understanding of the nature and operation of technology systems, including networked environments.

- Demonstrate an understanding of concepts underlying hardware, software and connectivity.
- Navigate computer systems (organize documents into folders, move between different applications).

1.2 Develop sufficient technical skills to successfully use, troubleshoot and maintain technology and telecommunications tools in daily life, work situations and learning environments.

- Apply strategies for identifying and solving routine hardware and software problems that occur during everyday use.
- Develop keyboarding skills. Use home row fingering position with appropriate fingering stretches, keyboarding faster than handwriting (approximately 10-15 wpm).

1.3 Discriminate among a variety of technologies and media to select appropriate technology for specific purposes.

- Select and use appropriate tools and technology resources to accomplish a variety of tasks

2. Use technology responsibly and ethically.

2.1 Practice responsible use of technology systems, information and software.

- Cooperate with others while using technology. Demonstrate respect for privacy and work of others.
- Care for and safely operate equipment.

2.2 Understand the ethical, cultural, environmental and societal implications of technology and telecommunications.

- Demonstrate positive and ethical social behavior when using technology (follow rules).
- Understand basics of information ownership and copyright law.
- Understand how technology is used daily in industry, business and education.

3. Use technology to communicate effectively and creatively.

3.1 Use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

- Create written documents using writing process steps, word processing skills, and publishing programs.
- Revise documents using word processing program features, including spell checking.
- Use a spreadsheet to create tables, graphs and charts, and explain what each means.

3.2 Use telecommunications to collaborate, publish and interact with peers, experts and other audiences.

- Communicate with others using email. Develop good habits for managing email.

3.3 Create, produce and present ideas in a variety of forms, including text,

video, graphics and conversation.

- Enhance documents with graphics, including clip art and original artwork, using paint, chart, and draw programs.
- Communicate ideas by creating and delivering a presentation.

4. Use technology for thinking, learning and producing.

4.1 Enhance content-area learning with technology-infused lessons.

- Use a variety of media and technology resources for directed and independent learning activities in the curriculum areas (lessons on public drives, online research projects).

4.2 Construct new meaning and knowledge by analyzing and synthesizing information.

- Compare and contrast information using two or more resources.

4.3 Use computer modeling, image processing, simulations and data manipulation to develop understanding.

- Sort and analyze information using databases and spreadsheets.

4.4 Use a variety of tools to produce quality products.

5. Use technology for research, problem solving and decision-making.

5.1 Use technology to locate, evaluate, collect, and organize information from a variety of sources.

- Use key words as a search strategy for locating information.
- Use technology to locate, evaluate, collect and organize information (electronic encyclopedias, library catalog, selected Internet sites, magazines).

5.2 Analyze information and apply understanding to solve problems.

- Use technology to research a problem or make a decision.

5.3 Work with a group to collaboratively solve a problem and present results.

- Research a problem or decision to be made using technology, and work with a team to create a product.

Technology Standards for All Students--Lawrence Public Schools

Grades 6-8: Performance Indicators

1. Understand basic technology operations and concepts.

1.1 Demonstrate a sound understanding of the nature and operation of technology systems, including networked environments.

- Demonstrate an understanding of concepts underlying hardware, software and connectivity.

- Navigate computer systems (organize documents into folders on network drive, move Between different applications, use program help and navigation aids).

1.2 Develop sufficient technical skills to successfully use, troubleshoot and maintain Technology and telecommunications tools in daily life, work situations and learning environments.

- Apply strategies for identifying and solving routine hardware and software problems that occur during everyday use.

- Develop keyboarding skills to 20-25 wpm with 90% accuracy on timed test.
- Demonstrate and use ergonomically appropriate posture and techniques to perform tasks.

1.3 Discriminate among a variety of technologies and media to select appropriate technology for specific purposes.

- Select and use appropriate tools and technology resources to accomplish a variety of tasks.

2. Use technology responsibly and ethically.

2.1 Practice responsible use of technology systems, information and software.

- Cooperate with others while using technology.
- Care for and safely operate equipment.

2.2 Understand the ethical, cultural, environmental and societal implications of technology and telecommunications.

- Demonstrate legal and ethical behaviors when using information and technology, and discuss consequences of misuse.
- Demonstrate understanding of intellectual property and copyright law by properly crediting work of self and others. Identify examples of copyright violations.
- Demonstrate knowledge of current changes in information technologies and the effect those changes have on the workplace and society.
- Identify technological skills needed for school success and jobs.
- Research the accuracy and relevance of information sources.

3. Use technology to communicate effectively and creatively.

3.1 Use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

- Create multi-page documents using writing process steps, word processing skills, and publishing programs.
- Revise documents using word processing program features, including spell checking, thesaurus and grammar checking. Use advanced editing and text formatting.

- Use a spreadsheet to create tables, graphs and charts, and explain what each means.

3.2 Use telecommunications to collaborate, publish and interact with peers, experts and other audiences.

- Communicate with others using email. Develop good habits for managing email.

3.3 Create, produce, and present ideas in a variety of forms, including text, video, graphics and conversation.

- Enhance documents with graphics, including clip art and original artwork, using paint and draw programs.
- Design, develop, publish and present products (presentations, web pages, documents, videotapes) for a variety of audiences.

4. Use technology for thinking, learning and producing.

4.1 Enhance content-area learning with technology-infused lessons.

- Use a variety of media and technology resources for directed and independent activities to support learning.

4.2 Construct new meaning and knowledge by combining and synthesizing different types of information.

4.3 Use computer modeling, image processing, simulations and data manipulation to develop understanding.

- Use content-specific tools, software and simulations (environmental probes, graphing calculators, exploratory environments, Web tools, visual learning aids) to support thinking and learning.

- Sort, organize, interpret and display information using spreadsheets and databases.

4.4 Use a variety of tools to produce quality products.

5. Use technology for research, problem solving and decision-making.

5.1 Use technology to locate, evaluate, collect and organize information from a variety of sources.

- Use search strategies, including logical operators, keywords and record sorting, in a prepared database.

- Use technology to locate, evaluate, collect and organize information (electronic encyclopedias, library catalog, selected Internet sites, magazines).

5.2 Review information analytically and transform it into useful knowledge to solve problems.

5.3 Work with a group to collaboratively solve a problem and present results.

- Collaborate with peers, experts and others using telecommunications and collaborative tools to investigate problems, issues and information, and to develop solutions.

Technology Standards for All Students--Lawrence Public Schools

Grades 9-12: Performance Indicators

1. Understand basic technology operations and concepts.

1.1 Demonstrate a sound understanding of the nature and operation of technology systems, including networked environments.

- Demonstrate an understanding of concepts underlying hardware, software and connectivity.

- Navigate computer systems (organize documents into folders on network drive, move between

different applications and various drives, use program help and navigation aids).

1.2 Develop sufficient technical skills to successfully use, troubleshoot and maintain technology and telecommunications tools in daily life, work situations and learning environments.

- Apply strategies for identifying and solving routine hardware and software problems that occur during everyday use.

- Develop keyboarding skills to 25-30 wpm, and demonstrate ergonomically appropriate posture and techniques to perform tasks.

1.3 Discriminate among a variety of technologies and media to select appropriate technology for specific purposes.

- Select and use appropriate tools and technology resources to accomplish a variety of tasks.
- Make informed choices among technology systems, resources and services.
- Identify capabilities and limitations of contemporary and emerging technology

resources, and assess the potential of these systems.

2. Use technology responsibly and ethically.

2.1 Practice responsible use of technology systems, information and software.

- Cooperate with others while using technology.
- Care for and safely operate equipment.

2.2 Understand the ethical, cultural, environmental and societal implications of technology and telecommunications.

- Demonstrate legal and ethical behaviors regarding the use of technology and information.
- Demonstrate understanding of intellectual property and copyright law by properly crediting work of self and others.
- Analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole.
- Identify technological skills needed for jobs.
- Research the accuracy and relevance of information sources.

3. Use technology to communicate effectively and creatively.

3.1 Use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

- Create multi-page documents using word processing skills, writing process steps, and publishing programs.
- Revise documents using word processing program features, including spell checking, thesaurus and grammar checking. Use advanced editing and text formatting.
- Use a spreadsheet to create tables, graphs and charts, and explain what each means.

3.2 Use telecommunications to collaborate, publish and interact with peers, experts and other audiences.

- Communicate with others using email. Develop good habits for managing email.
- Efficiently use online information resources to meet needs for collaboration, research, publications, communications and productivity.

3.3 Create, produce, and present ideas in a variety of forms, including text, video, graphics and conversation.

- Enhance documents with graphics, including clip art and original artwork, using paint and draw programs.

- Design, develop, publish, and present products (presentations, web pages, documents, videotapes) that demonstrate and communicate curriculum concepts to audiences inside and outside of the classroom.

- Collaborate with peers, experts and others to contribute to a content-related knowledgebase by using technology to compile, synthesize, produce and disseminate information, models and other creative works.

4. Use technology for thinking, learning and producing.

4.1 Enhance content-area learning with technology-infused lessons.

- Select and apply technology tools for research, information analysis, problem solving, and decision making in content learning.
- Evaluate technology-based options, including distance education, for lifelong learning.

4.2 Construct new meaning and knowledge by combining and synthesizing different types of information.

4.3 Use computer modeling, image processing, simulations and data manipulation to develop understanding.

- Use content-specific tools, software and simulations (environmental probes, graphing calculators, exploratory environments, Web tools, visual learning aids) to support thinking and learning.

- Sort, organize, interpret and display information using spreadsheets and databases.

- Investigate and apply expert systems, intelligent agents, and simulations in classroom and real world situations.

4.4 Use a variety of tools to produce quality products.

5. Use technology for research, problem solving and decision-making.

5.1 Use technology to locate, evaluate, collect and organize information from a variety of sources.

- Use technology to locate, evaluate and collect information (electronic encyclopedias, library catalog, selected Internet sites, magazines).

- Use a variety of electronic sources to access resources and media, and apply sophisticated search techniques to collate, interpret and publish a research project.

5.2 Review information analytically and transform it into useful knowledge to solve problems.

5.3 Work with a group to collaboratively solve a problem and present results.

- Collaborate with peers, experts and others using telecommunications and collaborative tools to investigate problems, issues and information, and to develop solutions.

PROFESSIONAL DEVELOPMENT STRATEGIES

In order for staff members to create powerful learning experiences for children, they need to demonstrate proficiency with the instructional tools that support and enhance the learning experience. *The Lawrence Public Schools Professional Development* philosophy promotes continuous inquiry and improvement embedded in the daily routine of schools with a focus on individual, collegial, and organizational improvement.

The professional development strategies for improving teaching and learning with technology are a part of numerous district and school-based strategic plans and curriculum initiatives.

2009-2012 School Years:

-Ongoing training and support for instructional software

-Specific training and support for:

- workshops for Discovery Education *unitedstreaming* online content: basic/intermediate use and writing prompts
- Continue the program of Credit Recovery for high school students utilizing **PLATO** courseware
- ELL online instructional courseware (Rosetta Stone)
- Foreign Language courseware and language lab
- Professional Productivity Tools for Educators (continue professional development focus for teachers and administrators: Technology and Professional Productivity.
- Provide professional development for the utilization of the new classroom technologies available to teachers as needed
- Ongoing training and support for: NWEA MAP (Measurement of Academic Progress) online assessment
- Continue Lawrence Public Schools Online Professional Development (**LPS OPD**) to enhance and extend professional development opportunities for all staff
- Specific training for courseware:
 - Scholastic - Read 180
 - Scholastic – System 44
 - Scientific Learning – FastForward
 - Criterion Online Writing Evaluation
 - Scholastic - Fastt Math
 - Odyssey Math Courseware
 - Nettekker
 - Discovery Education

Instructional Technology
Budget by Responsibility Center
FY2010 - 11

Budget

FY2010-11

Instructional Supervision

Administrators' Salary	103,103
Educational Materials	3,000
Operating Expense	<u>3,000</u>
	109,103

Instructional Technology

Extra Duty Teachers	0
Student Interns	3,000
Hardware	4,000
Software	171,100
Staff Development	5,000
Equipment Maintenance	1,500
Travel In State	<u>0</u>
	<u>184,600</u>

Instructional Technology 293,703

Budget Narrative

The Instructional Technology budget supports one administrator and instructional software expenses for the district. The department supports and evaluates instructional computer software for district adoption.

Budget Detail

Operating expenses cover all office supplies needed to operate this office, such as: paper, pens/pencils, toner cartridges for printers, etc.

Software expenses are for the licenses for our instructional software programs (PLATO, Read 180, Waterford, Rosetta Stone, Discovery Educ., etc.) and any new software needed to run instructional programs across the district.