

ISTE Standards	Artifacts	ISBE Standards	Skills, Knowledge, and Dispositions						
<p>I TECHNOLOGY OPERATIONS AND CONCEPTS. <i>Educational technology facilitators demonstrate an in-depth understanding of technology operations and concepts.</i></p> <ul style="list-style-type: none"> Performance Indicators <table border="1" data-bbox="134 402 606 451"> <tr> <td>TF-I.A.1</td> <td>TF-I.A.2</td> <td></td> </tr> </table>	TF-I.A.1	TF-I.A.2		<p>Computer Images and Videos as Classroom Resources: Camera Job Aide (TIE 553)</p> <hr/> <p>Photoshop Elements 3.0</p>	<p>STANDARD 2 – Hardware/Software Selection, Installation and Maintenance The technology specialist will demonstrate knowledge of selection, installation, management, and maintenance of the infrastructure in a classroom setting.</p> <table border="1" data-bbox="961 496 1333 529"> <tr> <td>2A</td> <td>2B</td> <td>2C</td> </tr> </table>	2A	2B	2C	<ul style="list-style-type: none"> Includes colorful instructions to provide assistance to teachers for understanding technology resources Included one to one and small group instruction and demonstration to meet specific learning needs. Indicates ongoing development of knowledge, skills, and technology systems. Indicates making appropriate choices about the development of Photoshop product according to resources on layout design Selection of appropriate software Described strategies of layout to support technology practices
TF-I.A.1	TF-I.A.2								
2A	2B	2C							

<p>II PLANNING AND DESIGNING LEARNING ENVIRONMENTS AND EXPERIENCES.</p> <p><i>Educational technology facilitators plan, design, model effective learning environments and multiple experiences supported by technology.</i></p> <ul style="list-style-type: none"> Performance Indicators <table border="1" data-bbox="132 337 621 480"> <tr> <td>TF-II.A.1</td> <td>TF-II.A.2</td> <td>TF-II.A.3</td> </tr> <tr> <td>TF-II.B.1</td> <td>TF-II.C.1</td> <td>TF-II.C.2</td> </tr> <tr> <td>TF-II.D.1</td> <td>TF-II.E.1</td> <td></td> </tr> </table>	TF-II.A.1	TF-II.A.2	TF-II.A.3	TF-II.B.1	TF-II.C.1	TF-II.C.2	TF-II.D.1	TF-II.E.1		<p>Daily Math Lessons</p>	<p>STANDARD 1 – Teaching Methodology</p> <p>The technology specialist will effectively plan, deliver, and assess students’ mastery of concepts and skills relevant to learning technologies and technological literacy across the curriculum. The technology specialist will apply effective methods and strategies for teaching these concepts and skills to students, educators, and administrators in various educational settings.</p> <ul style="list-style-type: none"> Performance Indicators <table border="1" data-bbox="957 553 1333 618"> <tr> <td>1A</td> <td>1B</td> <td>1C</td> </tr> <tr> <td>1D</td> <td>1E</td> <td>1F</td> </tr> </table>	1A	1B	1C	1D	1E	1F	<ul style="list-style-type: none"> Analysis of methods and strategies for teaching concepts and skills that integrate technology productivity according to NETS-S Relation according to trends related to the use of technology (interactive learning and WebQuests) Includes support integration for problem solving, use of media-based tools, and needs of diverse learners Lesson plans, instructions, and presentations developed with management strategies for needs of divers learners and settings Curricular methods and strategies aligned with district and state standards Web resources were carefully selected to meet leaning outcomes
TF-II.A.1	TF-II.A.2	TF-II.A.3																
TF-II.B.1	TF-II.C.1	TF-II.C.2																
TF-II.D.1	TF-II.E.1																	
1A	1B	1C																
1D	1E	1F																

III TEACHING, LEARNING, AND THE CURRICULUM.
Educational technology facilitators implement curriculum plans that include methods and strategies for utilizing technology to maximize student learning.

- Performance Indicators

TF-III.A.1	TF-III.A.2	TF-III.A.3
TF-III.A.4	TF-III.A.5	TF-III.A.7
TF-III.B.1	TF-III.C.1	TF-III.D.1
TF-III.E.1	TF-III.E.2	

Web-based Instructional Environments (TIE547)
 Ideas Bridge the Gap to Knowledge

STANDARD 4 – Instructional Design and Product Development
 The technology specialist will develop curricular plans and teaching aids based on local, state, and national standards for use of computers and other associated learning technologies, integrating these across subject and content areas.

- Performance Indicators

4A	4B	4C
4D	4E	4F
4G	4H	

STANDARD 5 – Information Access and Delivery
 The technology specialist will implement information access and delivery resources in P-12 schools to support the curriculum.

- Performance Indicators

5A	5B	5D
5E	5E	

STANDARD 8 – Instructional Program Development
 The technology specialist will develop an instructional program based on local, State, and national standards for the use of computers and other associated learning technologies, integrating these plans across subject and content areas.

- Performance Indicators

8A	8B	8C
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- Curriculum developed with concepts and skills that support the integration of technology productivity tools.
- Integration of Illinois State standards and NETS for students
- Analyzed methods and facilitated strategies for teaching problem solving principles and skills using technology resources
- Created Website to support curriculum for teachers and students
- Curriculum resources provide options to support the needs of diverse learners
- Used methods and strategies for teaching concepts and skills that support use of media-based tools such as television, audio, print media, and graphics
- Online curriculum provides PDF files to support teachers with lesson plans, student worksheets, and student science packets

<p>IV ASSESSMENT AND EVALUATION. <i>Educational technology facilitators apply technology to facilitate a variety of effective assessment and evaluation strategies.</i></p> <ul style="list-style-type: none"> • Performance Indicators <table border="1" data-bbox="132 310 621 358"> <tr> <td>TF-IV.A.1</td> <td>TF-IV.A.2</td> <td>TF-IV.B.1</td> </tr> </table>	TF-IV.A.1	TF-IV.A.2	TF-IV.B.1	<p>Building a Prairie</p>	<p>STANDARD 12 – Professional Development The technology specialist will participate in professional development experiences that allow him or her to observe the use of technology to support instruction, the management of technological resources in educational settings, and the evaluation of effectiveness of technological resources in teaching and learning; and to apply technological resources to support instruction in classroom settings.</p> <ul style="list-style-type: none"> • Performance Indicators <table border="1" data-bbox="957 586 1209 618"> <tr> <td>12B</td> <td>12C</td> </tr> </table>	12B	12C	<ul style="list-style-type: none"> • Managed and evaluated the applied technological resources to support instruction in a classroom setting • Observed and compared methods and strategies used in educational technology with learners with special needs • Analyzed methods and facilitated the use of strategies in Microsoft Word to assess student learning of subject matter using a variety of assessment techniques • Used the results from assessment measures to improved instructional planning, management, and implementation of learning strategies • Implemented a variety of instructional technology strategies and grouping strategies that include appropriate embedded assessment for meeting the diverse needs of learners
TF-IV.A.1	TF-IV.A.2	TF-IV.B.1						
12B	12C							

V PRODUCTIVITY AND PROFESSIONAL PRACTICE.
Educational technology facilitators apply technology to enhance and improve personal productivity and professional practice.

• Performance Indicators

TF-V.A.1	TF-V.A.2	TF-V.B.1
TF-V.C.2	TF-V.C.4	TF-V.C.5
TF-V.C.6	TF-V.C.7	TF-V.D.1
TF-V.D.2	TF-V.D.3	TF-V.D.4

Presenter:
 TECH 2006
 Springfield
 IL-TCE 2006 Poster
 Session: On the Road
 to Becoming a
 Technology Specialist

STANDARD 8 – Instructional Program Development

The technology specialist will develop an instructional program based on local, State, and national standards for the use of computers and other associated learning technologies, integrating these plans across subject and content areas.

• Performance Indicators

8A	8B	8C
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STANDARD 9 – Staff Development

The technology specialist will demonstrate knowledge of issues and models related to leadership in staff development. The technology specialist will identify resources, plan, and design staff development activities to support professional growth in learning technologies.

• Performance Indicators

9A	9B	9C
9D	9E	

- Evidence of participation in professional development activities and professional technology organizations.
- Evidence of professional growth and practices supporting staff, faculty, and administrators
- Collection of evaluations and reflections of professional practices to make informed decisions regarding the use of technology to support student learning
- Materials presented and created reflecting the integration of advanced features of professional products
- Material presented and created using a wide variety of formats for use in presentations, publications including multimedia
- Principles for multimedia designed to accommodate teaching practices by selecting appropriate tools for communicating concepts
- Examples of emerging programming, authoring, or problem solving environments that support personal and professional development
- Includes example of multimedia/hypermedia publishing in order to nurture student learning and communicate with colleagues to support instruction
- Includes online curriculum with applications including electronic mail and web browsers
- Implemented web designing, maintenance, and development with sites that supports communication between teachers, school, and community

VI SOCIAL, ETHICAL, LEGAL, AND HUMAN ISSUES.
Educational technology facilitators understand the social, ethical, legal, and human issues surrounding the use of technology in P-12 schools and assist teachers in applying that understanding in their practices.

- Performance Indicators

TF-VI.A.1	TF-VI.A.2	TF-VI.A.3
TF-VI.B.1	TF-VI.C.1	TF-VI.D.1
TF-VI.E.1		

Disaster Alley: The Disasters of Pompeii, Molasses Explosion, and Titanic

STANDARD 1 – Teaching Methodology

The technology specialist will effectively plan, deliver, and assess students’ mastery of concepts and skills relevant to learning technologies and technological literacy across the curriculum. The technology specialist will apply effective methods and strategies for teaching these concepts and skills to students, educators, and administrators in various educational settings.

- Performance Indicators

1A	1B	1C
1D	1E	1F
1G	1H	1J
1K		

- Rules, policies, and procedures implement throughout the process of multimedia usage.
- Students guided through legal and ethical use of technology while creating an iMovie and taking digital photos
- Activities focused on copyright laws related to use of images, music, and video
- Recommendations for appropriate usage of technology according to essential questions and learning outcomes
- Teacher collaboration to determine accessibility of multimedia materials
- Student one to one laptop usage while using iMovie, iTunes, and iPhoto
- Included concepts and skills relevant to learning technologies and technological literacy across the curriculum
- Designed and planned strategies for teaching concepts and skills related to learning technologies including digital camera, camcorder, and Mac applications (iMovie, iTunes, and iPhoto)
- Applied problem-solving principles and skills for using technology resources
- Heterogeneous grouping and collaboration using learning technologies
- Involved teamwork and small group collaboration

VII PROCEDURES, POLICIES, PLANNING, AND BUDGETING FOR TECHNOLOGY ENVIRONMENTS

Educational technology facilitators promote the development and implementation of technology infrastructure, procedures, policies, plans, and budgets for P-12 schools.

- Performance Indicators

TF-VII.A.1	TF-VII.A.6	TF-VII.A.8
TF-VII.B.1	TF-VII.B.2	TF-VII.B.3
TF-VII.B.4	TF-VII.B.7	

Computer/Technology Systems and Related Peripherals (TIE 532)

STANDARD 6 – Information Access and Delivery
 The technology specialist will install, customize, and configure the operating systems of computers and computer networks in school settings.

- Performance Indicators

6E

STANDARD 7 – Software/Hardware Selection, Installation, and Maintenance
 The technology specialist will identify and implement software in both classroom and administrative environments. He or she will investigate issues related to school/site planning, purchasing, and integration of technology.

- Performance Indicators

7C 7D

STANDARD 10 – Facilities and Resource Management
 The technology specialist will demonstrate knowledge of issues related to facilities and resource management.

- Performance Indicators

10B

- Includes layout plans for computer/technology systems and related peripherals in laboratory, classroom cluster, and other arrangements
- Includes plans for troubleshooting and maintaining organization for inventory
- Includes plans that enhances the use of technology in different arrangements
- Instructional software based on keyboard applications
- Consultation with district tech coordinator as a resource for planning issues
- Includes excel spreadsheet of technological tools, price listing, quantity, and total cost.

VIII LEADERSHIP AND VISION
Educational technology facilitators will contribute to the shared vision for campus integration of technology and foster an environment and culture conducive to the realization of the vision.

- Performance Indicators

TF-VIII.A.1	TF-VIII.B.1	TF-VIII.C.1
TF-VIII.D.1	TF-VIII.D.2	TF-VIII.D.3

Online Curriculum
 Weighing the Pros and Cons: One school's mission to create new curriculum (TIE 593)

STANDARD 3 – Research and Theory

The technology specialist will identify and apply educational and technology-related research, the psychology of learning, and instructional design principles in guiding use of computers and technology in education.

- Performance Indicators

3A	3B	3C
3D	3G	

STANDARD 11 – Managing the Change Process within Educational Reform Efforts

The technology specialist will demonstrate knowledge of strategies for and issues related to managing the change process as part of overall educational reform efforts in schools and districts.

- Performance Indicators

11B	11C	11D
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STANDARD 12 – Professional Development

The technology specialist will participate in professional development experiences that allow him or her to observe the use of technology to support instruction, the management of technological resources in educational settings, and the evaluation of effectiveness of technological resources in teaching and learning; and to apply technological resources to support instruction in classroom settings.

- Performance Indicators

12A	12B	12C
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- Supports current research in educational technology
- Weighs pros and cons of online curriculum
- Offers citation of interviews from both perspectives
- Discusses the school's history of technology usage
- Analyzes two cooperating teams that include grades 3-6
- References made on Illinois State Standards used as a guide
- Discusses integration of technology to support curriculum development