

Kansas Technology Literacy Standards were developed using the National Educational Technology Standards (NETS) <http://cnets.iste.org> and related documents from this website.

Technology Literacy

Pre-Kindergarten

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses input/output devices to successfully operate technology. 2. uses a variety of medial and technology resources for directed and independent learning activities. 3. communicates about technology using developmentally appropriate and accurate terminology. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. use a mouse to run a program. 2. use a computer and multimedia technology with teacher assistance. 3. locate a computer and multimedia technology in the classroom and identify it by name.
<p>NOTES:</p>	

Technology Literacy

Kindergarten

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses input/output devices to successfully operate technology.2. uses a variety of media and technology resources for directed and independent learning activities.3. communicates about technology using developmentally appropriate and accurate terminology.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. identify letters on a keyboard.2. use a computer and multimedia technology with teacher assistance.3. locate a computer and multimedia technology in the classroom and identify it by name.
<p>NOTES:</p>	

Technology Literacy

First Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses input/output devices to successfully operate technology.2. uses a variety of media and technology resources for directed and independent learning activities.3. communicates about technology using developmentally appropriate and accurate terminology.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. use a mouse and keyboard appropriately.2. use a computer and multimedia technology for directed learning activities.3. identify various parts of a computer by name.
<p>NOTES:</p>	

Technology Literacy

Second Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses input/output devices to successfully operate technology.2. uses a variety of media and technology resources for directed and independent learning activities.3. communicates about technology using developmentally appropriate and accurate terminology.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. name parts of a computer and print documents.2. use a computer and multimedia technology for directed learning activities.3. use correct terminology when talking about computers and multimedia technology.
<p>NOTES:</p>	

Technology Literacy

Third Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses input/output devices to successfully operate technology.2. discusses common uses of technology in daily life and the advantages and disadvantages those uses provide.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. use the keyboard in a structured program for teaching typing skills (e.g., home row, basic symbols, and capital letters).2. discuss tasks that a computer can do (e.g., word processing, email, Internet, and presentations).
<p>NOTES:</p>	

Technology Literacy

Fourth Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses input/output devices to successfully operate technology.2. discusses common uses of technology in daily life and the advantages and disadvantages those uses provide.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. use the keyboard in a structured program for teaching typing skills (e.g., coverage of the entire keyboard).2. create documents using a keyboard.3. use media and technology resources for presenting information (e.g., for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom).
<p>NOTES:</p>	

Technology Literacy

Fifth Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses input/output devices to successfully operate technology.2. discusses common uses of technology in daily life and the advantages and disadvantages those uses provide.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. create documents using CD-Roms and Internet resources.2. use media and technology resources for presenting information (e.g., for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom).
NOTES:	

Technology Literacy

Sixth Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>applies strategies for identifying and solving problems.</p>	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. apply strategies for identifying and solving routine hardware and software problems that occur during everyday use.2. use computer resources, CD-Roms, and Internet to collaborate with peers, experts and others to investigate curriculum-related problems, issues and information, and to develop solutions or products for audiences inside and outside the classroom.
<p>NOTES:</p>	

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>applies strategies for identifying and solving problems.</p>	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. apply strategies for identifying and solving routine hardware and software problems that occur during everyday use. 2. use computer resources, CD-Roms, and Internet to collaborate with peers, experts and others to investigate curriculum-related problems, issues and information, and to develop solutions or products for audiences inside and outside the classroom. 3. research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real world problems.
<p>NOTES:</p>	

Technology Literacy

Eighth Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>applies strategies for identifying and solving problems.</p>	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. apply strategies for identifying and solving routine hardware and software problems that occur during everyday use.2. use computer resources, CD-Roms, and Internet to collaborate with peers, experts and others to investigate curriculum-related problems, issues and information, and to develop solutions or products for audiences inside and outside the classroom.3. research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real world problems.4. incorporate all available technology tools and resources to research, investigate, solve, and present findings.
<p>NOTES:</p>	

Technology Literacy

Ninth Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. applies strategies for identifying and solving problems.2. makes informed choices among technology systems, resources, and services.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. identify capacities and limitations of contemporary and emerging technology resources.2. use the correct device to store data for a research project.
NOTES:	

Technology Literacy

Tenth Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. applies strategies for identifying and solving problems.2. makes informed choices among technology systems, resources, and services.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. use technology tools and resources for managing and communicating personal/professional information (e.g., finances, schedules, addresses, purchases, and correspondence).2. use accurate information for research (e.g., credible web sites, published studies, and reliable authorities).
<p>NOTES:</p>	

Technology Literacy

Eleventh Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. applies strategies for identifying and solving problems.2. makes informed choices among technology systems, resources, and services.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. research technology systems, resources, and services to solve technical problems.2. research options for local Internet access (e.g., cost, speed, reliability of connection, and value for the money).
NOTES:	

Technology Literacy

Twelfth Grade

Standard 10: The student understands basic operations and concepts.

Benchmark 1: The student demonstrates a sound understanding of the nature of operation of technology systems.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. applies strategies for identifying and solving problems.2. makes informed choices among technology systems, resources, and services.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. research technology systems, resources, and services to solve technical problems.2. investigate and apply expert systems, intelligent agents, and simulations in real world situations.3. evaluate technology-based options, including distance and distributed education for lifelong learning.
<p>NOTES:</p>	

Technology Literacy

Pre-Kindergarten

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>understands ethical issues related to technology.</p>	<p>The LMS/teacher librarian has the student...</p> <p>demonstrate ethical use of computers (e.g., following the librarian's instructions for sharing the computer with a classmate and managing the software appropriately).</p>
<p>NOTES:</p>	

Technology Literacy

First Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

First Grade Knowledge Base Indicators	Instructional Examples
The student... understands ethical issues related to technology.	The LMS/teacher librarian has the student... demonstrate appropriate use of passwords and network use.
NOTES:	

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. understands ethical issues related to technology.2. understands cultural issues related to technology.3. understands societal issues related to technology.	<p>The LMS/teacher librarian has the student...</p> <p>describe or list ways technology has changed the way people lived and worked throughout history (e.g., grandparents' era to today).</p>
NOTES:	

Technology Literacy

Third Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. understands ethical issues related to technology.2. understands cultural issues related to technology.3. understands societal issues related to technology.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. demonstrate and give examples of how technology has changed the way people lived and worked throughout history and enabled them to contribute to the common good.2. understand that people use technology to create new items (e.g., products, resources, etc.) and that the creator may own the rights to these items (e.g., an author may create a Web site, a programmer may create software, and an inventor may create a device).3. know that the direct Acceptable Usage Policy (AUP) describes the rules for using classroom technology and the Internet.
<p>NOTES:</p>	

Technology Literacy

Fourth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. understands ethical issues related to technology.2. understands cultural issues related to technology.3. understands societal issues related to technology.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. explore and compare common uses of technology in daily life, and the advantages and disadvantages those uses provide.2. practice respect for intellectual property rights (e.g., another student's ideas and acknowledge all contributions to group work).3. discuss policies presented in the district Acceptable Usage Policy (AUP) and understand that the AUP describes the rules for using school-based technology.
NOTES:	

Technology Literacy

Fifth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. understands ethical issues related to technology. 2. understands cultural issues related to technology. 3. understands societal issues related to technology. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. discuss how use of technology may have positive and/or negative consequences. 2. analyze common uses of technology in daily life and the advantages and disadvantages those uses provide (e.g., how technology helps us communicate). 3. discuss patent, copyright, trade name/trademark protection and rights of the owner of the work (e.g., inventor, manufacturer, software developer, company, Web site creator, and author of information.. 4. discuss basic issues related to responsible use of technology and describe personal consequences of inappropriate use (e.g., plagiarism, intellectual property, and the conditions of the district AUP).
<p>NOTES:</p>	

Technology Literacy

Sixth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. understands ethical issues related to technology. 2. understands cultural issues related to technology. 3. understands societal issues related to technology. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. discuss how new technologies have resulted from the demands, values, and interests of individuals, businesses, industries, and societies. 2. compare key concepts of intellectual property including ownership of technology, copyright, patent, trademark, trade name, and discuss consequences of violating other's intellectual property rights. 3. explain the role of technology in the social and economic development of society. 4. follow policies presented in the district Acceptable Usage Policy (AUP) and discuss consequences of inappropriate use of technology.
<p>NOTES:</p>	

Technology Literacy

Seventh Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. understands ethical issues related to technology.2. understands cultural issues related to technology.3. understands societal issues related to technology.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. relate ways that the uses of inventions and innovations have led to changes in society and the creation of new needs and wants.2. determine the steps necessary to respect intellectual property rights (e.g., obtain permission from the owner, credit the sources of the items, and pay a licenses fee to use the item).3. analyze situations that arise regarding the use of intellectual property, including ethical considerations.4. follow policies presented in the district Acceptable Usage Policy (AUP) and discuss consequences of inappropriate use of technology.
<p>NOTES:</p>	

Technology Literacy

Eighth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. understands ethical issues related to technology. 2. understands cultural issues related to technology. 3. understands societal issues related to technology. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. describe how the use of technology affects humans in various ways, including their safety, comfort, choices, and attitudes about technology’s development and use. 2. discuss software piracy, its impact on the technology industry, and possible repercussions to individuals and/or the school district. 3. demonstrate legal and ethical practices when completing projects./schoolwork. Explain how economic, political, and cultural issues are influence by the development and use of technology. 4. follow policies presented in the district Acceptable Usage Policy (AUP) and discuss consequences of inappropriate use of technology.
<p>NOTES:</p>	

Technology Literacy

Ninth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. understands ethical issues related to technology. 2. understands cultural issues related to technology. 3. understands societal issues related to technology. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. explain how making decisions about the use of technology involves weighing the trade-offs between the positive and negative effects. 2. practice responsible usage of technologies (e.g., download legally, install licensed software, adhere to copyright restrictions). 3. understand that ethical considerations are important in the development, selection, and use of technologies. 4. discuss access to information in a democratic society. 5. demonstrate and advocate for legal and ethical behaviors among peers, family and community regarding the use of technology and information.
<p>NOTES:</p>	

Technology Literacy

Tenth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. understands ethical issues related to technology. 2. understands cultural issues related to technology. 3. understands societal issues related to technology. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. understand that the development of technology may be influenced by societal opinions and demands, in addition to corporate cultures. 2. understand the importance of diverse information and access to information in a democratic society. 3. contrast ethical considerations and how they are important in the development, selection, an use of technologies. 4. describe/discuss the ethical considerations involved in the development or deployment of a technology. 5. provide examples of how transfer of a technology from one society to another can cause cultural, social, economic, and political changes. 6. analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole. 7. demonstrate and advocate for legal and ethical behaviors among peers, family and community regarding the use of technology and information.
<p>NOTES:</p>	

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. understands ethical issues related to technology. 2. understands cultural issues related to technology. 3. understands societal issues related to technology. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. describe how changes caused by the use of technology can range from gradual to rapid, and from subtle to obvious. 2. examine and discuss how technology, its use, and resultant societal changes are viewed by different ethnic, cultural, and religious groups. 3. debate the ethical considerations involved in the development or deployment of new technologies (e.g., medical technologies to create or extend life, satellite imagery, and software to capture content or monitor user activity). 4. compare and evaluate the advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole. 5. demonstrate and advocate for legal and ethical behaviors among peers, family and community regarding the use of technology and information.
<p>NOTES:</p>	

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 1: The student understands the ethical, cultural, and societal issues related to technology.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. understands ethical issues related to technology. 2. understands cultural issues related to technology. 3. understands societal issues related to technology. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. debate the advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole. 2. forecast changes in laws and legislation that might result from the exponential growth of technology. 3. debate the position that technology has been a powerful force in reshaping the social, cultural, political, and economic landscape, citing references and examples. 4. demonstrate and advocate for legal and ethical behaviors among peers, family and community regarding the use of technology and information.
<p>NOTES:</p>	

Technology Literacy

Pre-Kindergarten

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <p>use a variety of media and technology resources for directed and independent learning activities (e.g., interactive electronic books and curriculum-based related games).</p>
NOTES:	

Technology Literacy

First Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <p>use a variety of media and technology resources for directed and independent learning activities (e.g., interactive electronic books and curriculum-based related games).</p>
<p>NOTES:</p>	

Technology Literacy

Second Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <p>use developmentally appropriate multimedia resources (e.g., interactive books, educational software, and elementary multimedia encyclopedias to support learning).</p>
NOTES:	

Technology Literacy

Third Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <p>use general purpose productivity tools to support personal productivity, remediate skills deficits, and facilitate learning throughout the curriculum (e.g., compare and contrast the use of paper and electronic resources, and explore content specific software).</p>
<p>NOTES:</p>	

Technology Literacy

Fourth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. use general purpose productivity tools to support personal productivity, remediate skills deficits, and facilitate learning throughout the curriculum (e.g., compare and contrast the use of paper and electronic resources, and explore content specific software).2. describe why it is important for everyone to have access to information sources and information technology.
<p>NOTES:</p>	

Technology Literacy

Fifth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. practices responsible use of technology systems. 2. practices responsible use of information. 3. practices responsible use of software. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. use general purpose productivity tools to support personal productivity, remediate skills deficits, and facilitate learning throughout the curriculum (e.g., compare and contrast the use of paper and electronic resources, and explore content specific software). 2. distinguish basic issues related to responsible use of technology and information, and relate personal consequences of inappropriate use.
<p>NOTES:</p>	

Technology Literacy

Sixth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <p>use content specific tools, software, and simulations (e.g., environmental probes, graphing calculators, exploratory environments, and web tools) to support learning and research.</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. use content specific tools, software, and simulations (e.g., environmental probes, graphing calculators, exploratory environments, and web tools) to support learning and research.2. understand that installations of software requires an appropriate software license, and that the license determines how many times the software may be installed.
<p>NOTES:</p>	

Technology Literacy

Eighth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. use content specific tools, software, and simulations (e.g., environmental probes, graphing calculators, exploratory environments, and web tools) to support learning and research.2. understand that installations of software requires an appropriate software license, and that the license determines how many times the software may be installed.3. discuss technological piracy, its impact on the technology industry, and possible repercussions to individuals and/or the school district.
NOTES:	

Technology Literacy

Ninth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. discuss access to information in a democratic society.2. describe criteria for assessing the quality of information.3. practice responsible usage of technologies (e.g., download legally, install licensed software, and adhere to copyright restrictions).
NOTES:	

Technology Literacy

Tenth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <p>understand the importance of diverse information and access to information in a democratic society.</p>
NOTES:	

Technology Literacy

Eleventh Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <p>assess technology systems and resources and services relative to responsible usage of technology.</p>
NOTES:	

Technology Literacy

Twelfth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 2: The student practices responsible use of technology systems, information, and software.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. practices responsible use of technology systems.2. practices responsible use of information.3. practices responsible use of software.	<p>The LMS/teacher librarian has the student...</p> <p>make informed choices among technology systems, resources, and services.</p>
NOTES:	

Technology Literacy

Pre-Kindergarten

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

First Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

First Grade Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Second Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Second Grade Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Third Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. develops positive attitudes toward technology uses that support for lifelong learning.2. develops positive attitudes toward technology uses that support collaboration.3. develops positive attitudes toward technology uses that support personal pursuits.4. develops positive attitudes toward technology uses that support productivity.	<p>The LMS/teacher librarian has the student...</p> <p>understand that hardware and software can be used for individual and collaborative projects.</p>
NOTES:	

Technology Literacy

Fourth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. develops positive attitudes toward technology uses that support for lifelong learning. 2. develops positive attitudes toward technology uses that support collaboration. 3. develops positive attitudes toward technology uses that support personal pursuits. 4. develops positive attitudes toward technology uses that support productivity. 	<p>The LMS/teacher librarian has the student...</p> <p>develop collaborative strategies for using various hardware/ software applications for individual or group projects.</p>
<p>NOTES:</p>	

Technology Literacy

Fifth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. develops positive attitudes toward technology uses that support for lifelong learning.2. develops positive attitudes toward technology uses that support collaboration.3. develops positive attitudes toward technology uses that support personal pursuits.4. develops positive attitudes toward technology uses that support productivity.	<p>The LMS/teacher librarian has the student...</p> <p>identify and show cooperative and collaborative strategies to work with others when using technology systems.</p>
<p>NOTES:</p>	

Technology Literacy

Sixth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. develops positive attitudes toward technology uses that support for lifelong learning.2. develops positive attitudes toward technology uses that support collaboration.3. develops positive attitudes toward technology uses that support personal pursuits.4. develops positive attitudes toward technology uses that support productivity.	<p>The LMS/teacher librarian has the student...</p> <p>use technology to collaborate with others and credit all participants for their contribution to the work.</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. develops positive attitudes toward technology uses that support for lifelong learning. 2. develops positive attitudes toward technology uses that support collaboration. 3. develops positive attitudes toward technology uses that support personal pursuits. 4. develops positive attitudes toward technology uses that support productivity. 	<p>The LMS/teacher librarian has the student...</p> <p>describe how the use of technology affects humans in various ways including their safety, comfort, choices, and attitudes about technology's development and use.</p>
<p>NOTES:</p>	

Technology Literacy

Eighth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. develops positive attitudes toward technology uses that support for lifelong learning.2. develops positive attitudes toward technology uses that support collaboration.3. develops positive attitudes toward technology uses that support personal pursuits.4. develops positive attitudes toward technology uses that support productivity.	<p>The LMS/teacher librarian has the student...</p> <p>describe how societal and personal expectations drive the acceptance and use of technology products and systems.</p>
<p>NOTES:</p>	

Technology Literacy

Ninth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"><li data-bbox="237 521 936 581">1. develops positive attitudes toward technology uses that support for lifelong learning.<li data-bbox="237 613 936 673">2. develops positive attitudes toward technology uses that support collaboration.<li data-bbox="237 735 936 795">3. develops positive attitudes toward technology uses that support personal pursuits.<li data-bbox="237 857 936 917">4. develops positive attitudes toward technology uses that support productivity.	<p>The LMS/teacher librarian has the student...</p> <p>understand that the appropriate design of technological systems maximizes performance.</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. develops positive attitudes toward technology uses that support for lifelong learning. 2. develops positive attitudes toward technology uses that support collaboration. 3. develops positive attitudes toward technology uses that support personal pursuits. 4. develops positive attitudes toward technology uses that support productivity. 	<p>The LMS/teacher librarian has the student...</p> <p>identify capabilities and limitations of contemporary and emerging technology resources to address lifelong learning and workplace needs.</p>
<p>NOTES:</p>	

Technology Literacy

Eleventh Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. develops positive attitudes toward technology uses that support for lifelong learning. 2. develops positive attitudes toward technology uses that support collaboration. 3. develops positive attitudes toward technology uses that support personal pursuits. 4. develops positive attitudes toward technology uses that support productivity. 	<p>The LMS/teacher librarian has the student...</p> <p>compare and evaluate the advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole.</p>
<p>NOTES:</p>	

Technology Literacy

Twelfth Grade

Standard 11: The student demonstrates knowledge of social, ethical, and human issues.

Benchmark 3: The student develops positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. develops positive attitudes toward technology uses that support for lifelong learning. 2. develops positive attitudes toward technology uses that support collaboration. 3. develops positive attitudes toward technology uses that support personal pursuits. 4. develops positive attitudes toward technology uses that support productivity. 	<p>The LMS/teacher librarian has the student...</p> <p>articulate how different factors, such as individual curiosity, advertising, strength of the economy, the goals of a company and current trends, contribute to shaping the design of, and demand for, various technologies.</p>
<p>NOTES:</p>	

Technology Literacy

Pre-Kindergarten

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>create, as a class, an electronic project by publishing original ideas with word processing software and selecting related images.</p>
NOTES:	

Technology Literacy

First Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>create a family genealogy/family tree using concept-mapping software (e.g., Kidspiration, with adult assistance).</p>
NOTES:	

Technology Literacy

Second Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. explore simulations through interactive software and websites.2. respond electronically using a classroom performance system (e.g., eInstruction, Qwizdom, Interwrite Pads, or Smartboards).
NOTES:	

Technology Literacy

Third Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>access online databases to retrieve information (e.g., heroes, space exploration).</p>
NOTES:	

Technology Literacy

Fourth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>incorporate digital images/video clips into artwork and class projects.</p>
NOTES:	

Technology Literacy

Fifth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>access scientific simulations using interactive software and websites.</p>
NOTES:	

Technology Literacy

Sixth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>organize information by creating a graphic organizer using concept-mapping software (e.g., Inspiration).</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>participate in web quest activities to discover new information about a given topic.</p>
NOTES:	

Technology Literacy

Eighth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>create a multimedia presentation that synthesizes multiple resources (e.g., the organization of American politics).</p>
NOTES:	

Technology Literacy

Ninth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>record and respond to literature in an electronic journal or blog.</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>reflect on their learning and how technology has affected the process of learning and sharing in an electronic portfolio.</p>
NOTES:	

Technology Literacy

Eleventh Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>present a visual representation using concept-mapping software (e.g., character relationships with Inspiration).</p>
NOTES:	

Technology Literacy

Twelfth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 1: The student uses technology tools to enhance learning, increase productivity, and promote creativity.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses technology tools to enhance learning.2. uses technology tools to increase productivity.3. uses technology tools to promote creativity.	<p>The LMS/teacher librarian has the student...</p> <p>compile an electronic exit portfolio that demonstrates his/her college or vocational readiness.</p>
<p>NOTES: Clarifications of information provided in the indicators, benchmarks, and instructional examples. Some examples have been adapted from: <u>National Educational Technology Students for Students: Connecting Curriculum and Technology.</u> International Society for Technology in Education, 2000.</p>	

Technology Literacy

Pre-Kindergarten

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>use concept-mapping/graphic-organizing software with adult direction (e.g., retell story as a class using Kidspiration).</p>
NOTES:	

Technology Literacy

First Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>sequence images from smallest to largest using concept-mapping software with adult assistance (e.g., Kidspiration).</p>
NOTES:	

Technology Literacy

Second Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>research a topic (e.g., in books or online, or both), take notes using a graphic organizer, and present information using multimedia software in small groups.</p>
NOTES:	

Technology Literacy

Third Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>research advertisements found in various types of media in small groups, use presentation software to present the attributes of a single ad, and create their own advertisement.</p>
NOTES:	

Technology Literacy

Fourth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>create a database of U.S. regional facts and design a tri-fold travel brochure or a billboard for the region. Then compare/contrast the regions using concept-mapping software (e.g., Inspiration).</p>
NOTES:	

Technology Literacy

Fifth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. create a digital map, including their own written direction, to navigate from home to school. They can check their own work using Map Quest website.2. produce a classroom newsletter with images using word-processing/publishing software.
NOTES:	

Technology Literacy

Sixth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>use concept-mapping software (e.g., Inspiration, to design flow charts such as how water and nutrients are absorbed and used by a plant).</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>use a spreadsheet and drawing software to design a room (e.g., the ideal bedroom, limited by size and price).</p>
NOTES:	

Technology Literacy

Eighth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>investigate the Pythagorean Theorem using dynamic geometry software to test their understandings and allow them to explain their findings.</p>
NOTES:	

Technology Literacy

Ninth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>use word processing and/or multimedia software to present analytical essays on various topics.</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>use image software (e.g., Paint, Photoshop, to create original work).</p>
NOTES:	

Technology Literacy

Eleventh Grade

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses productivity tools to collaborate in constructing technology-enhanced models.2. uses productivity tools to prepare publications.3. uses productivity tools to produce other creative works.	<p>The LMS/teacher librarian has the student...</p> <p>use desktop publishing software to produce a school newspaper, yearbook, and/or magazine.</p>
NOTES:	

Standard 12: The student uses technology productivity tools.

Benchmark 2: The student uses productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses productivity tools to collaborate in constructing technology-enhanced models. 2. uses productivity tools to prepare publications. 3. uses productivity tools to produce other creative works. 	<p>The LMS/teacher librarian has the student...</p> <p>create a resume or portfolio to apply for positions on interest.</p>
<p>NOTES: Some examples have been adapted from: National Educational Technology Students for Students Connecting Curriculum and Technology. International Society for Technology in Education, 2000. Salina Public Schools Technology Document.</p>	

Technology Literacy

Pre-Kindergarten

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>identify common telecommunications formats (e.g., telephone, e-mail, webpage, etc.) with the adult direction.</p>
NOTES:	

Technology Literacy

First Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>explore common telecommunications formats with adult assistance.</p>
NOTES:	

Technology Literacy

Second Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>demonstrate knowledge of telecommunications tools (e.g., telephone, e-mail, bulletin boards, newsgroups, and blogs, with adult guidance).</p>
NOTES:	

Technology Literacy

Third Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>produce a media-based telecommunications product (e.g., online newsletter, bulletin boards, newsgroups, and blogs).</p>
NOTES:	

Technology Literacy

Fourth Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>identify the components of e-mail (e.g., address, subject, and message) and use a classroom account to communicate with others.</p>
<p>NOTES:</p>	

Technology Literacy

Fifth Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>use available telecommunication tools to gather information for collaborative projects or topics of personal interest.</p>
NOTES:	

Technology Literacy

Sixth Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>use "Ask an Expert" sites to research a topic.</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>engage in virtual learning activities (e.g., virtual museum tours/simulations).</p>
NOTES:	

Technology Literacy

Eighth Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. choose an appropriate communications tool to gather information and share findings.2. use telecommunication tools independently to collaborate with others in producing products or solving problems.
<p>NOTES:</p>	

Technology Literacy

Ninth Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>use online communication technologies to inquire, research, and share results.</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses telecommunications to collaborate with peers, experts, and other audiences.2. uses telecommunications to publish with peers, experts, and other audiences.3. uses telecommunications to interact with peers, experts, and other audiences.	<p>The LMS/teacher librarian has the student...</p> <p>use online writing software (e.g., www.writely.com) to collaboratively create and edit a document.</p>
NOTES:	

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses telecommunications to collaborate with peers, experts, and other audiences. 2. uses telecommunications to publish with peers, experts, and other audiences. 3. uses telecommunications to interact with peers, experts, and other audiences. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. locate and employ web-based learning (e.g., tutorials, virtual classes, etc.). 2. locate and use online applications (e.g., educational, career, scholarship).
<p>NOTES:</p>	

Standard 13: The student uses technology communication tools.

Benchmark 1: The student uses telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses telecommunications to collaborate with peers, experts, and other audiences. 2. uses telecommunications to publish with peers, experts, and other audiences. 3. uses telecommunications to interact with peers, experts, and other audiences. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. plan and conduct their own collaborative projects using their school's available telecommunication tools (e.g., interactive websites and videoconferencing). 2. locate and use online applications (e.g., educational, career, scholarship).
<p>NOTES: Adapted from NETS and Ohio technology standards.</p>	

Technology Literacy

Pre-Kindergarten

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>participate in online learning, such as virtual field trips or web cams, with the direction of the teacher.</p>
NOTES:	

Technology Literacy

First Grade

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>participate in online projects, with adult assistance.</p>
NOTES:	

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses a variety of media to communicate information and ideas effectively to multiple audiences. 2. uses a variety of formats to communicate information and ideas effectively to multiple audiences. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. share information in teacher-directed group e-mail sessions. 2. use presentation software (e.g., Kid Pix or Power Point or newsletter templates to communicate classroom/school news).
<p>NOTES:</p>	

Technology Literacy

Third Grade

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>create a slide show using presentation software (e.g., Kid Pix or Power Point) to introduce self to classmates or others.</p>
NOTES:	

Technology Literacy

Fourth Grade

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>work in a group to create a web quest on a unit of study.</p>
NOTES:	

Technology Literacy

Fifth Grade

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>select the best available media to create and edit a product to share with audiences inside and outside school.</p>
NOTES:	

Technology Literacy

Sixth Grade

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>combine individually designed slides to create a presentation on a unit of study to share with parents at a Family Night or parent-teacher conferences.</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>work collaboratively on a newsletter reflecting unit of study using publication software (e.g., Publisher).</p>
NOTES:	

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses a variety of media to communicate information and ideas effectively to multiple audiences. 2. uses a variety of formats to communicate information and ideas effectively to multiple audiences. 	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none"> 1. write and publish book reviews for the school's web page. 2. join a teacher-monitored online discussion with a remote audience about a topic of mutual interest (modeled after NPR's Story Corps).
<p>NOTES:</p>	

Technology Literacy

Ninth Grade

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>create and publish information in building/district web pages.</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses a variety of media to communicate information and ideas effectively to multiple audiences.2. uses a variety of formats to communicate information and ideas effectively to multiple audiences.	<p>The LMS/teacher librarian has the student...</p> <p>contribute own ideas and knowledge to online communication tools (e.g., e-mail discussions, listserv, or blogs).</p>
NOTES:	

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses a variety of media to communicate information and ideas effectively to multiple audiences. 2. uses a variety of formats to communicate information and ideas effectively to multiple audiences. 	<p>The LMS/teacher librarian has the student...</p> <p>gather information and share results using online communication tools (e.g., e-mail discussions, listserv, www.writely.com, or blogs).</p>
<p>NOTES:</p>	

Standard 13: The student uses technology communication tools.

Benchmark 2: The student uses a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses a variety of media to communicate information and ideas effectively to multiple audiences. 2. uses a variety of formats to communicate information and ideas effectively to multiple audiences. 	<p>The LMS/teacher librarian has the student...</p> <p>design own online portfolio, resume, or webpage to share with potential employers.</p>
<p>NOTES: Adapted from NETS and Ohio standards.</p>	

Technology Literacy

Pre-Kindergarten

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Kindergarten Knowledge Base Indicators	Instructional Examples
The student... uses appropriate technology tools to locate information.	The LMS/teacher librarian has the student... navigate a website on a topic of interest with adult direction.
NOTES:	

Technology Literacy

First Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.	<p>The LMS/teacher librarian has the student...</p> <p>with adult guidance, use appropriate multimedia or online resources to gather information.</p>
NOTES:	

Technology Literacy

Second Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.	<p>The LMS/teacher librarian has the student...</p> <p>with adult guidance, use appropriate products to gather, evaluate, and cite source(s).</p>
NOTES:	

Technology Literacy

Third Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.	<p>The LMS/teacher librarian has the student...</p> <p>use word processing software to create a class project.</p>
NOTES:	

Technology Literacy

Fourth Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.	<p>The LMS/teacher librarian has the student...</p> <p>research a topic and gather information from the Internet using a hotlist (e.g., mathematics and computer science hotlist, Black history hotlist).</p>
NOTES:	

Technology Literacy

Fifth Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.	<p>The LMS/teacher librarian has the student... research a topic and gather information from the Internet using a student-oriented search engine (e.g., Kids Click, Yahoooligans).</p>
NOTES:	

Technology Literacy

Sixth Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.3. uses appropriate technology to evaluate information.	<p>The LMS/teacher librarian has the student... evaluate, as a class, a website for accuracy and reliability.</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.3. uses appropriate technology to evaluate information.	<p>The LMS/teacher librarian has the student...</p> <p>locate online information that supports your point of view in two or more sources.</p>
NOTES:	

Technology Literacy

Eighth Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.3. uses appropriate technology to evaluate information.	<p>The LMS/teacher librarian has the student... research independently and synthesize information from multiple sources.</p>
NOTES:	

Technology Literacy

Ninth Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.3. uses appropriate technology to evaluate information.	<p>The LMS/teacher librarian has the student... research and evaluate online resources for accuracy and reliability.</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.3. uses appropriate technology to evaluate information.	<p>The LMS/teacher librarian has the student...</p> <p>use a spreadsheet or database to collect and graph the results of data collection.</p>
NOTES:	

Technology Literacy

Eleventh Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.3. uses appropriate technology to evaluate information.	<p>The LMS/teacher librarian has the student...</p> <p>evaluate the results of a data collection project and explain some future implications.</p>
NOTES:	

Technology Literacy

Twelfth Grade

Standard 14: The student uses technology research tools.

Benchmark 1: The student uses technology to locate, collect, and evaluate information from a variety of sources.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to locate information.2. uses appropriate technology tools to collect information.3. uses appropriate technology to evaluate information.	<p>The LMS/teacher librarian has the student...</p> <p>take a computer skills inventory assessment when looking at future occupational decisions.</p>
<p>NOTES: Some examples have been adapted or taken from: USD 305 Salina Public Schools Technology Curriculum.</p>	

Technology Literacy

Pre-Kindergarten

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Kindergarten Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses appropriate technology tools to process data.</p>	<p>The LMS/teacher librarian has the student...</p> <p>use a scanning device to save an original illustration with adult direction.</p>
<p>NOTES:</p>	

Technology Literacy

First Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>use simple graphing software to record the results of a survey as a class.</p>
NOTES:	

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>collect, process, and report classroom data with adult guidance (e.g., most popular candy bar).</p>
NOTES:	

Technology Literacy

Third Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>collect, process, and report data from multiple classrooms (e.g., birthday, favorite TV program).</p>
<p>NOTES:</p>	

Technology Literacy

Fourth Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. collect, process, and report data (e.g., use a digital camera to illustrate group height of mean, median, and mode).2. choose the best technological application to present a researched topic.
NOTES:	

Technology Literacy

Fifth Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>collect data and create a timeline with available software (e.g., Inspiration, Timeliner).</p>
NOTES:	

Technology Literacy

Sixth Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>use technology application to organize the main idea and supporting details (e.g., plot in narrative, main idea and supporting details in expository, technical or persuasive).</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>create a presentation using an application of their choice to compare and contrast a topic (e.g., the inner and outer planets).</p>
NOTES:	

Technology Literacy

Eighth Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>use graphing application to graph data and present findings (e.g., U.S. and the world temperatures).</p>
NOTES:	

Technology Literacy

Ninth Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>explore state-of-the-art devices to store data that will be used for researching projects.</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. uses appropriate technology tools to process data.2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>identify/recognize state-of-the-art technology tools for solving problems and managing personal/professional information.</p>
<p>NOTES:</p>	

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. uses appropriate technology tools to process data. 2. uses appropriate technology tools to report results. 	<p>The LMS/teacher librarian has the student...</p> <p>apply emerging technology tools and resources for managing and communicating personal/professional information (e.g., distance learning, voice-recognition tools, personal digital devices, automatic identification systems, bar codes, and radio frequency tags).</p>
<p>NOTES:</p>	

Technology Literacy

Twelfth Grade

Standard 14: The student uses technology research tools.

Benchmark 2: The student uses technology tools to process data and report results.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"><li data-bbox="237 488 877 516">1. uses appropriate technology tools to process data.<li data-bbox="237 548 877 576">2. uses appropriate technology tools to report results.	<p>The LMS/teacher librarian has the student...</p> <p>use technology tools to model complex systems of information to improve the communication of and access to the information (e.g., modeling physics principals, graphic/geographic information system, and weather modeling).</p>
<p>NOTES: Some examples have been adapted or taken from: USD 305 Salina Public Schools Technology Curriculum.</p>	

Technology Literacy

Pre-Kindergarten

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

First Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

First Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>choose the best source(s) of information on a topic from a pre-selected group of materials.</p>
NOTES:	

Technology Literacy

Second Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>recognize that information can and should be gathered from a variety of print and non-print sources.</p>
NOTES:	

Technology Literacy

Third Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>demonstrate the selection of appropriate resources.</p>
NOTES:	

Technology Literacy

Fourth Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>choose the most appropriate technology application as a visual aid for a researched topic presentation.</p>
NOTES:	

Technology Literacy

Fifth Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>using a student-oriented search engine (e.g., Kids Click, Yahoo!igans, research a topic and choose and cite the best information sources).</p>
NOTES:	

Technology Literacy

Sixth Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>evaluate, as a class, a website for user appropriateness for specific needs (e.g., technical needs vs. general informational needs).</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>find information resources about options for cell phone service and decide the best choice for their own needs.</p>
NOTES:	

Technology Literacy

Eighth Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>research a student selected topic independently and synthesize information from multiple sources.</p>
NOTES:	

Technology Literacy

Ninth Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>compare online resources on the same topic for format variations. Describe the impact of the format on the reader.</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>use a spreadsheet or database to collect and evaluate the rise in crime rate of five major cities.</p>
NOTES:	

Technology Literacy

Eleventh Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>preview three survey tools and select the best one for conducting a survey of student views on academic dishonesty.</p>
NOTES:	

Technology Literacy

Twelfth Grade

Standard 14: The student uses technology research tools.

Benchmark 3: The student evaluates and selects new information resources and technological innovations based on the appropriateness for specific tasks.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>surveys possible information resources and selects appropriate resources for specific tasks.</p>	<p>The LMS/teacher librarian has the student...</p> <p>using a free subscription, take a computer-based personality test to determine his/her own potential for leadership positions.</p>
<p>NOTES: Some examples have been adapted or taken from: USD 305 Salina Public Schools Technology Curriculum.</p>	

Technology Literacy

Pre-Kindergarten

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

First Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

First Grade Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Second Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>access introductory non-print materials (e.g., ASPCA web site, with adult guidance, on how to prepare their homes for a pet).</p>
<p>NOTES:</p>	

Technology Literacy

Third Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>collect data and graph results on the local topic (e.g., daily temperatures).</p>
<p>NOTES:</p>	

Technology Literacy

Fourth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>collect local environmental data and submit it to an online project to compare local data with other areas (e.g., GLOBE www.globe.gov).</p>
<p>NOTES:</p>	

Technology Literacy

Fifth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>work together to solve an inquiry-based problem (e.g., identify the main elements of a fingerprint at http://www.fbi.gov/kids/kids/htm to solve a “mystery” in ancient civilizations).</p>
<p>NOTES:</p>	

Technology Literacy

Sixth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>track, plot, and explain the local data (e.g., changing location of the sunrise and weekly zenith in the sky, explaining the changing seasons and why this information was so important in ancient civilizations).</p>
<p>NOTES:</p>	

Technology Literacy

Seventh Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>track and use online data (e.g., track ocean vessels, collecting data on their location, direction, and speed and then predict where the vessel may be heading and its expected arrival time).</p>
<p>NOTES:</p>	

Technology Literacy

Eighth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>collect, plot, and analyze current world data on digital maps (e.g., earthquakes around the world leading to the identification of the earth's plate tectonics).</p>
<p>NOTES:</p>	

Technology Literacy

Ninth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>collect, plot, and analyze current world data on digital maps, looking for cause/effect relationships and potential future problems (e.g., current population growth around the world).</p>
<p>NOTES:</p>	

Technology Literacy

Tenth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>investigate the cause(s) of a current world conflict and possible solutions (e.g., Middle East).</p>
<p>NOTES:</p>	

Technology Literacy

Eleventh Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>use government online data to analyze and make predictions (e.g., the federal census records to analyze ethnic diversity).</p>
<p>NOTES:</p>	

Technology Literacy

Twelfth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 1: The student uses technology resources for solving problems.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>uses technology resources to solve problems.</p>	<p>The LMS/teacher librarian has the student...</p> <p>compile data, using it to make predictions (e.g., size and scope of the universe with an acceptable margin or error).</p>
<p>NOTES:</p> <p>1. National Educational Technology Standards for Students: Connecting Curriculum and Technology.</p>	

Technology Literacy

Pre-Kindergarten

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

First Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

First Grade Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Second Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Second Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>use features such as "Favorites" or Filamentality "hotlists" to locate and select the most appropriate web site resources for a given project.</p>
<p>NOTES:</p>	

Technology Literacy

Third Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <ol style="list-style-type: none">1. track local data and use it to make a decision (e.g., track the weather in order to recommend the best day for the school's fire drill).2. use Reader's Advisory tools such as Novelist or those on a public library web site to make informed choices about literature.
<p>NOTES:</p>	

Technology Literacy

Fourth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>collect information and apply it to a problem (e.g., class sizes to create a seating plan that works best for building-wide assemblies).</p>
<p>NOTES:</p>	

Technology Literacy

Fifth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>access and evaluate online data sources (e.g., Kansas population maps and landscape/terrain/weather maps to analyze population distribution).</p>
<p>NOTES:</p>	

Technology Literacy

Sixth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>collect data on sources, cost, and technical details of music download websites to select the best option for their needs.</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>use current data in a design project (e.g., design their own room within set size and cost boundaries, calculating the amount of floor covering and paint required for the room, and then creating a spreadsheet to calculate the cost of these items).</p>
<p>NOTES:</p>	

Technology Literacy

Eighth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>use government resources to compare career options (e.g., data from the Kansas Department of Labor [http://laborstats.dol.ks.gov/]) to look at unemployment in different areas of the state and decide if their location provides options for future careers.</p>
NOTES:	

Technology Literacy

Ninth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>use the Internet to research possible careers (e.g., collect data on salary, possible demand, and educational requirements).</p>
<p>NOTES:</p>	

Technology Literacy

Tenth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Tenth Grade Knowledge Base Indicators	Instructional Examples
The student... selects technology resources to make informed decisions.	The LMS/teacher librarian has the student... research area educational institutions (e.g., current costs and their options for future educational training).
NOTES:	

Technology Literacy

Eleventh Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>analyze prices and options to make a financial decision (e.g., the price per square foot of the housing market in their area to calculate the amount of insurance that should be carried on their home in case of total loss).</p>
<p>NOTES:</p>	

Technology Literacy

Twelfth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 2: The student uses technology resources to make informed decisions.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <p>selects technology resources to make informed decisions.</p>	<p>The LMS/teacher librarian has the student...</p> <p>collect data to analyze how variables might affect results (e.g., the state by state results of the most recent Presidential election, looking at the key states in the election that could have changed the election results).</p>
<p>NOTES: National Educational Technology Standards for Students: Connecting Curriculum and Technology.</p>	

Technology Literacy

Pre-Kindergarten

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Pre-Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Kindergarten

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Kindergarten Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

First Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

First Grade Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Second Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Second Grade Knowledge Base Indicators	Instructional Examples
The student... n/a	The LMS/teacher librarian has the student... n/a
NOTES:	

Technology Literacy

Third Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Third Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>with adult guidance, use geo-locating equipment (e.g., GPS to locate latitude and longitude of local historical landmarks).</p>
NOTES:	

Technology Literacy

Fourth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Fourth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>analyze a product ad for accuracy (e.g., Product X's claim to have "Even More Great Tasting xxx").</p>
NOTES:	

Technology Literacy

Fifth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Fifth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>collect survey data from their school (e.g., most popular meals in the lunchroom and present the data to the district kitchen staff).</p>
NOTES:	

Technology Literacy

Sixth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Sixth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>use technology to analyze data for personal improvement (e.g., state practice assessment data to calculate how many questions they will have to answer correctly to move up to the next proficiency level on the actual assessment).</p>
NOTES:	

Technology Literacy

Seventh Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Seventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>use online map sources to draw conclusions (e.g., GoogleEarth to look at land use in their area, contact area residents to review land use trends).</p>
NOTES:	

Technology Literacy

Eighth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Eighth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>collect data to predict future trends (e.g., local weather data to create graphs or charts to predict future weather).</p>
NOTES:	

Technology Literacy

Ninth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Ninth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>use geo-locating equipment to analyze local data (e.g., GPS to plot the location of deer sightings or car accidents and analyze the data on GoogleEarth to study cause/effect).</p>
NOTES:	

Technology Literacy

Tenth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Tenth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>create a plan to troubleshoot a computer problem, eliminating options in order to isolate the problem.</p>
NOTES:	

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Eleventh Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none"> 1. selects appropriate technology to solve problems. 2. selects appropriate technology to make informed decisions. 	<p>The LMS/teacher librarian has the student...</p> <p>select appropriate technology to study a local problem and find possible causes and solutions (e.g., a local fish kill in a lake, collecting and evaluating data to draw conclusions about cause and solutions).</p>
<p>NOTES:</p>	

Technology Literacy

Twelfth Grade

Standard 15: The student uses technology problem-solving and decision-making tools.

Benchmark 3: The student uses technology resources for solving problems and making informed decisions.

Twelfth Grade Knowledge Base Indicators	Instructional Examples
<p>The student...</p> <ol style="list-style-type: none">1. selects appropriate technology to solve problems.2. selects appropriate technology to make informed decisions.	<p>The LMS/teacher librarian has the student...</p> <p>select appropriate technologies to create, present, and store projects as a part of their senior portfolio.</p>
NOTES:	