

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
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Standard 1: Analysis, Inquiry, and Design

Students will use mathematical analysis, scientific enquiry, and engineering design, as appropriate, to pose questions, seek answers, and develop solutions.

<p>MST1.C.MA2A: Mathematical Analysis</p> <p>Students use deductive reasoning to construct and evaluate conjectures and arguments, recognizing that patterns and relationships in mathematics assist them in arriving at these conjectures and arguments.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating examples of conjectures and arguments as well as information on patterns and relationships in math.</p> <p>LMS reviews how to retrieve, evaluate and report information appropriately.</p>
<p>MST1.C.SI1A: Scientific Inquiry</p> <p>Students elaborate on basic scientific and personal explanations of natural phenomena and develop extended visual models and mathematical formulations to represent their thinking.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print).</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>36. Use magazine indices to retrieve articles for pleasure and information (print/non-print).</p> <p>37. Use multimedia software to produce presentations.</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating examples of scientific explanations of natural phenomena.</p> <p>School library media specialist reviews how to retrieve, evaluate and report information appropriately.</p> <p>LMS supports students as needed in developing visual models (charts, spreadsheets) and mathematical formulations to represent them.</p>

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<p>Scientific Inquiry</p> <p>Students hone ideas through reasoning, library research and discussion with others, including experts.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print).</p> <p>37. Use multimedia software to produce presentations. 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews how to retrieve, evaluate and report information appropriately.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p>
<p>MST1.C.SIIC: Scientific Inquiry Students work toward reconciling competing explanations; clarifying points of agreement and disagreement.</p>	<p>25. Be able to take simple notes. 29. Be able to paraphrase information.</p>	<p>LMS supports students as needed in taking notes and paraphrasing information collected.</p>

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<p>MST1.CS11D: Scientific Inquiry Students coordinate explanations at different levels of scale, points of focus and degrees of complexity and specificity and recognize the need for such alternative representations of the natural world.</p>	<p>29. Be able to paraphrase information. 40. Analyze and synthesize information gathered.</p>	<p>LMS assists students with analyzing and synthesizing information gathered.</p>
<p>MST1.C.S12A: Scientific Inquiry Students devise ways of making observations to test proposed explanations.</p>	<p>15. Locate books on the shelves by using the call numbers. 17. Use the electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazines 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p> <p>LMS reviews how to retrieve, evaluate, and report information appropriately.</p>

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<p>MST1.C.SI2B:</p> <p>Scientific Inquiry</p> <p>Students refine their research ideas through library investigations, including electronic information retrieval and reviews of the literature and through peer feedback obtained from review and discussion.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print).</p> <p>37. Use multimedia software to produce presentations. 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews all available resources pertinent to the topic.</p> <p>LMS reviews how to retrieve sources.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p>
<p>MST1.C.SI2C:</p> <p>Scientific Inquiry</p> <p>Students develop and present proposals including formal hypotheses to test their explanations, i.e., they predict what should be observed under specified conditions if the observation is true.</p>	<p>29. Be able to paraphrase information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS assists students with analyzing and synthesizing information gathered.</p>

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<p>MST1.C.2SID:</p> <p>Scientific Inquiry</p> <p>Students carry out their research plan for testing explanations, including selecting and developing techniques, acquiring building apparatus, and recording observations as necessary.</p>	<p>25. Be able to take simple notes.</p> <p>37. Use multimedia software to produce presentations.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS assists students with analyzing and synthesizing information gathered.</p> <p>LMS assists students with recording observations using multimedia software.</p>
<p>MST1.C.SI3A:</p> <p>Scientific Inquiry</p> <p>Students use various means of representing and organizing observations (e.g., diagrams, tables, charts, graphs, equations, matrices) and insightfully interpret the organized data.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Students use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS assists students with locating various diagrams, tables, charts, graphs, etc. so that they can interpret the data.</p>
<p>MST1.C.SI3E:</p> <p>Scientific Inquiry</p> <p>Students develop a written report for public scrutiny that describes their proposed explanation, including a literature review, the research they carried out, its result and suggestions for future research.</p>	<p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>40. Analyze and synthesize the information gathered.</p> <p>47. Prepare a works cited page using different types of material (Internet, etc.), using a standard District format such as APA or MLA.</p>	<p>LMS assists students with analyzing and synthesizing information gathered.</p>

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Standard 2: Information Systems

Students will access, generate, process, and transfer information using appropriate technologies.

<p>Information Systems</p> <p>Students understand and use the more advanced features of word processing, spreadsheets and database software.</p>	<p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>36. Use magazine indices to retrieve articles for pleasure and information (print and non-print)</p> <p>37. Use multimedia software to produce presentations.</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews advanced searching techniques.</p> <p>LMS instructs students on how to use advanced features of word processing, spreadsheets and database software.</p> <p>LMS helps students decide if information they have gathered is relevant.</p>
<p>MST2.C.IS1B:</p> <p>Information Systems</p> <p>Students prepare multimedia presentations demonstrating a clear sense of audience and purpose.</p>	<p>25. Be able to take simple notes.</p> <p>29. Be able to paraphrase information.</p> <p>37. Use multimedia software to produce presentations.</p>	<p>LMS instructs students on how to use software such as PowerPoint to produce multimedia presentations using information they have already gathered.</p>

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<p>MST2.C.IS1C:</p> <p>Information Systems</p> <p>Students access, select, collate and analyze information obtained from a wide range of sources such as research databases, foundations, organizations, national libraries and electronic commercial networks.</p>	<p>22. Comply with the District's Acceptable Use Policy for the Internet.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>24. Know that interlibrary loan is available and follow appropriate procedures.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate resources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>36. Use magazine indices to retrieve articles for pleasure and information (print/non-print).</p> <p>40. Analyze and synthesize the information gathered.</p> <p>41. Use an electronic catalog to locate and borrow resources through interlibrary loan.</p> <p>46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p> <p>LMS helps students decide if information they have gathered is relevant.</p>
<p>MST2.C.IS1D:</p> <p>Information Systems</p> <p>Students receive news reports from abroad and work in groups to produce newspapers reflective the perspectives of different countries.</p>	<p>22. Comply with the district's Acceptable Use Policy for the Internet.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p> <p>LMS assists students with analyzing and synthesizing information gathered.</p>
<p>MST2.C.IS1E:</p> <p>Information Systems</p> <p>Students utilize electronic networks to share information.</p>	<p>22. Comply with the district's Acceptable Use Policy for the Internet.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p>	<p>LMS reviews available resources pertinent to the topic.</p>

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<p>MST2.C.IS1F:</p> <p>Information Systems</p> <p>Students model solutions to a range of problems in mathematics, science and technology using computer simulation software.</p>	<p>25. Be able to take simple notes.</p> <p>29. Be able to paraphrase information.</p> <p>37. Use multimedia software to produce presentations.</p>	<p>LMS instructs students on how to use computer simulation software.</p> <p>LMS assists students with analyzing and synthesizing information gathered.</p>
<p>MST2.C.IS2A:</p> <p>Information Systems</p> <p>Students explain the impact of the use and abuse of electronically generated information on individuals and families.</p>	<p>15. Locate books on the shelves by using the call numbers.</p> <p>16. Locate and use the magazines in the library.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>22. Comply with the district's Acceptable Use Policy for the Internet.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>24. Know that interlibrary loan is available and follow appropriate procedures.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p>	<p>LMS reviews district's Acceptable Use Policy.</p> <p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p>
<p>MST2.C.IS2B:</p> <p>Information Systems</p> <p>Students evaluate software packages relative to their suitability to a particular application and their ease of use.</p>	<p>27. Select appropriate sources for reference information.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in evaluating various software packages.</p>

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<p>MST2.C.IS2C:</p> <p>Information Systems</p> <p>Students discuss ethical and social issues raised by the use and abuse of information systems.</p>	<p>15. Locate books on the shelves by using the call numbers.</p> <p>16. Locate and use the magazines in the library.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>22. Comply with the district's Acceptable Use Policy for the Internet.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>24. Know that interlibrary loan is available and follow appropriate procedures.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>35. Understand plagiarism and the need for documentation when doing a research project.</p> <p>36. Use magazine indices to retrieve articles for pleasure and information (print/non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews district's Acceptable Use Policy.</p> <p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p>
<p>MST2.C.IS3A:</p> <p>Information Systems</p> <p>Students work with a virtual community to conduct a project or solve a problem using the network.</p>	<p>22. Comply with the district's Acceptable Use Policy for the Internet.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>28. Use primary and secondary information sources.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p>	<p>LMS reviews district's Acceptable Use Policy.</p> <p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p> <p>LMS reviews how to retrieve, evaluate and report information appropriately.</p>

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<p>MST2.C.IS3B:</p> <p>Information Systems</p> <p>Students discuss how applications of information technology can address some major global problems and issues.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>22. Comply with the district's Acceptable Use Policy for the Internet.</p> <p>23. Use pre-selected/bookmarked sites on the Internet and follow appropriate procedures.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>36. Use magazine indices to retrieve articles for pleasure and information (print/non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p> <p>41. Use an electronic catalog to locate and borrow resources through interlibrary loan.</p>	<p>LMS reviews district's Acceptable Use Policy.</p> <p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p> <p>LMS reviews how to retrieve, evaluate and report information appropriately.</p> <p>LMS assists students with analyzing and synthesizing information gathered.</p>
<p>MST2.C.IS3C:</p> <p>Information Systems</p> <p>Students discuss the environmental, ethical, moral, and social issues raised by the use and abuse of information technology.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>22. Comply with the district's Acceptable Use Policy for the Internet.</p> <p>23. Use pre-selected/bookmarked sites on the Internet and follow appropriate procedures.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>36. Use magazine indices to retrieve articles for pleasure and information (print/non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p> <p>41. Use an electronic catalog to locate and borrow resources through interlibrary loan.</p>	<p>LMS reviews district's Acceptable Use Policy.</p> <p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating various forms of information to complete a project.</p> <p>LMS reviews how to retrieve, evaluate and report information appropriately.</p> <p>LMS assists students with analyzing and synthesizing information gathered.</p>

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Standard 3: Mathematics

Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically, by applying mathematics in real-world settings, and by solving problems through the integrated study of number systems, geometry, algebra, data analysis, probability, and trigonometry.

<p>MST3.C.MR1.MA.A: Mathematical Reasoning, Math A Students construct valid arguments.</p>	<p>15. Locate books on the shelves by using the call numbers.</p> <p>17. Use the electronic card catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating samples of mathematical reasoning.</p> <p>LMS assists students with analyzing information gathered and constructing their own valid arguments.</p>
<p>MST3.C.MR1.MA.B: Mathematical Reasoning, Math A Students follow and judge the validity of arguments.</p>	<p>29. Be able to paraphrase information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS assists students with analyzing their own valid arguments and judging the validity.</p>

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<p>MST3.C.MR1.MB.A: Mathematical Reasoning, Math B Students construct proofs based on deductive reasoning.</p>	<p>15. Locate books on the shelves by using the call numbers.</p> <p>17. Use the electronic card catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating samples of deductive reasoning.</p> <p>LMS assists students with analyzing information gathered and constructing their own proofs.</p>
<p>MST3.C.MR1.MB.B: Mathematical Reasoning, Math B Students construct indirect proofs.</p>	<p>15. Locate books on the shelves by using the call numbers.</p> <p>17. Use the electronic card catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS supports students as needed in locating samples of indirect proofs.</p> <p>LMS assists students with analyzing information gathered and constructing their own indirect proofs.</p>

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<p>MST3.C.NN2.MA.A: Number and Numeration,</p> <p>Math A Students understand and use rational and irrational numbers.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating examples of rational and irrational numbers.</p>
<p>MST3.C.NN2.MA.B: Number and Numeration,</p> <p>Math A Students recognize the order of real numbers.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating examples of the order of real numbers.</p>
<p>MST3.C.NN2.MA.C: Number and Numeration,</p> <p>Math A Students apply the properties of real numbers to various subsets of numbers.</p>	<p>29. Be able to paraphrase information. 40. Analyze and synthesize the information gathered.</p>	<p>LMS assists students with analyzing information gathered and applying the properties of real numbers to various subsets of numbers.</p>

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<p>MST3.C.NN2.MB.A: Number and Numeration,</p> <p>Math B Students understand and use rational and irrational numbers.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating examples of rational and irrational numbers.</p>
<p>MST3.C.NN2.MB.B: Number and Numeration,</p> <p>Math B Students recognize the order of real numbers.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating examples of real numbers.</p>
<p>MST3.C.NN2.MB.C: Number and Numeration,</p> <p>Math B Students apply the properties of the real numbers to various subsets of numbers.</p>	<p>29. Be able to paraphrase information. 40. Analyze and synthesize the information gathered.</p>	<p>LMS assists students with analyzing information gathered and applying the properties of the real numbers to various subsets of numbers.</p>
<p>MST3.C.NN2.MB.D: Number and Numeration,</p> <p>Math B Students recognize the hierarchy of the complex number system.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on the complex number system.</p>

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MST3.C.NN2.MB.E: Number and Numeration, Math B Students model the structure of the complex number system.	29. Be able to paraphrase information. 40. Analyze and synthesize the information gathered.	LMS assists students with analyzing information gathered and being able to model the structure of the complex number system.
MST3.C.OP3.MA.C: Operations, Math A Students recognize and identify symmetry and transformations on figures.	17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.	LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on symmetry and transformations on figures.
MST3.C.OP3.MB.B: Operations, Math B Students develop an understanding of and use the composition of functions and transformations.	17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 27. Select appropriate sources for reference information.	LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques.

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Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
	32. Use specialized encyclopedias and subject dictionaries (print and non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.	LMS supports students as needed in locating information on the composition of functions and transformations.
MST3.C.OP3.MB.C: Operations, Math B Students use transformations on figures and functions in the coordinate plane.	29. Be able to paraphrase information. 40. Analyze and synthesize the information gathered.	LMS assists students with analyzing information gathered and being able to use transformations on figures and functions in the coordinate plane.
MST3.C.MM4.MA.B: Modeling/ Multiple Representation, Math A Students represent problem situations symbolically by using algebraic expressions, sequences, tree diagrams, geometric figures and graphs.	29. Be able to paraphrase information. 37. Use multimedia software to produce presentations. 40. Analyze and synthesize the information gathered.	LMS assists students with analyzing information gathered and being able to represent it symbolically. LMS instructs students on how to use multimedia software.
MST3.C.MM4.MA.B: Modeling/ Multiple Representation, Math A Students justify the procedures for basic geometric constructions.	17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 27. Select appropriate sources for reference information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered.	LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on basic geometric constructions. LMS helps students analyze information gathered to justify procedures for basic geometric constructions.

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<p>MST3.C.MM4.MA.D: Modeling/</p> <p>Multiple Representation, Math A</p> <p>Students develop and apply the concept of basic loci to compound loci.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>27. Select appropriate sources for reference information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on basic loci.</p> <p>LMS helps students analyze information gathered to be able to apply the concept of basic loci to compound loci.</p>
<p>MST3.C.MM4.MB.D: Modeling/</p> <p>Multiple Representation, Math B</p> <p>Students develop meaning for basic conic sections.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>27. Select appropriate sources for reference information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on basic conic sections.</p> <p>LMS helps students analyze information gathered to be able to understand basic conic sections.</p>
<p>MST3.C.ME5.MA.A: Measurement,</p> <p>Math A</p> <p>Students apply formulas to find measures such as length, area, volume, weight, time and angle in real-world contexts.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>27. Select appropriate sources for reference information.</p> <p>32. Use specialized encyclopedias and subject dictionaries</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on formulas for measurement.</p> <p>LMS helps students analyze information gathered to be able to apply formulas to find measures.</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST3.C.ME5.MB.H: Measurement, Math B</p> <p>Students derive formulas to find measures such as length, area and volume in real-world context.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>27. Select appropriate sources for reference information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on formulas for measurement.</p> <p>LMS helps students analyze information gathered to be able to derive formulas to find measures.</p>
<p>MST3.C.UN6.MB.C: Uncertainty, Math B</p> <p>Students interpret probabilities in real-world situations.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>27. Select appropriate sources for reference information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on probabilities.</p> <p>LMS helps students analyze information gathered to be able to interpret probabilities in real-world situations.</p>
<p>MST3.C.UN6.MB.D: Uncertainty, Math B</p> <p>Students use a Bernoulli experiment to determine probabilities for experiments with exactly two outcomes.</p>	<p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>27. Select appropriate sources for reference information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating examples of Bernoulli experiments.</p> <p>LMS helps students analyze information gathered to be able to interpret probabilities for experiments with exactly two outcomes.</p>

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MST3.C.PF7.MA.A: Patterns/ Functions, Math A Students represent and analyze functions using verbal descriptions, tables, equations and graphs.	29. Be able to paraphrase information. 37. Use multimedia software to produce presentations. 40. Analyze and synthesize the information gathered.	LMS assists students with analyzing and synthesizing information gathered. LMS assists students with representing functions by using multimedia software such as PowerPoint or Excel.
MST3.C.PF7.MB.B: Patterns/ Functions, Math B Students represent and analyze functions using verbal descriptions, tables, equations and graphs.	29. Be able to paraphrase information. 37. Use multimedia software to produce presentations. 40. Analyze and synthesize the information gathered.	LMS assists students with analyzing and synthesizing information gathered. LMS assists students with representing functions by using multimedia software such as PowerPoint or Excel.

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
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Standard 4: Science

Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.

<p>MST4.C.LE1A: Living Environment Students explain how diversity of populations within ecosystems relates to the stability of ecosystems.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating various forms of information on population diversity and ecosystems. LMS helps students analyze information gathered so that they will be able to explain how diversity of populations within ecosystems relates to their stability.</p>
<p>MST4.C.LE1B: Living Environment Students describe and explain the structures and functions of the human body at different organizational levels (e.g., systems, tissues, cells, organelles).</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating various forms of information on the structures of the human body at different organizational levels. LMS helps students analyze information gathered so that they will be able to explain the structures and functions of the human body at different organizational levels.</p>
<p>MST4.C.LE1C: Living Environment Students explain how a one-celled organism is able to function despite lacking the levels of organization present in more complex organisms.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on various forms of information one-celled organisms. LMS helps students analyze information gathered so that they will be able to explain how a one-celled organism is able to function despite lacking the levels of organization present in more complex organisms.</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST4.C.LE2A: Living Environment Students explain how the structure and replication of genetic material result in offspring that resemble their parents.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on genetics. LMS helps students analyze information gathered so that they will be able to explain how the structure and replication of genetic material.</p>
<p>MST4.C.LE2B: Living Environment Students explain how the technology of genetic engineering allows humans to alter the genetic makeup of organisms.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on genetic engineering. LMS helps students analyze information gathered so that they will be able to explain how the genetic makeup of organisms is altered through genetic engineering.</p>
<p>MST4.C.LE3A: Living Environment Students explain the mechanisms and patterns of evolution.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on evolution. LMS helps students analyze information gathered so that they will be able to explain how the mechanisms and patterns of evolution.</p>

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<p>MST4.C.LE4A: Living Environment</p> <p>Students explain how organisms, including humans, reproduce their own kind.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on reproduction.</p> <p>LMS helps students analyze information gathered so that they will be able to explain how organisms, including humans, reproduce.</p>
<p>MST4.C.LE5A: Living Environment</p> <p>Students explain the basic biochemical processes in living organisms and their importance in maintaining dynamic equilibrium.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on the basic biological processes in organisms.</p> <p>LMS helps students analyze information gathered so that they will be able to explain the importance of organisms maintaining their dynamic equilibrium.</p>
<p>MST4.C.LE5B: Living Environment</p> <p>Students explain disease as a failure of homeostasis.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on disease and homeostasis.</p> <p>LMS helps students analyze information gathered so that they will be able to explain disease as a failure of homeostasis.</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST4.C.LE5C: Living Environment Students relate processes at the system level to the cellular level in order to explain dynamic equilibrium in multi-celled organisms.</p>	<p>40. Analyze and synthesize information gathered.</p> <p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on processes at the system level and processes at the cellular level.</p> <p>LMS helps students analyze information gathered so that they will be able to explain dynamic equilibrium in multi-celled organisms.</p>
<p>MST4.C.LE6A: Living Environment Students explain factors that limit growth of individuals and populations.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on growth in humans.</p> <p>LMS helps students analyze information gathered so that they will be able to explain factors that limit growth in humans.</p>
<p>MST4.C.LE6B: Living Environment Students explain the importance of preserving diversity of species and habitats.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on diversity in species and habitats.</p> <p>LMS helps students analyze information gathered so that they will be able to explain the importance of preserving diversity of species and habitats.</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST4.C.LE6C: Living Environment Students explain how the living and nonliving environments change over time and respond to disturbances.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on living and nonliving environments. LMS helps students analyze information gathered so that they will be able to explain how environments change over time and respond to disturbances.</p>
<p>MST4.C.LE7A: Living Environment Students describe the range of interrelationships of humans with the living and nonliving environment.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on the interrelationship of humans with the living and nonliving environment. LMS helps students analyze information gathered so that they will be able to explain the range of interrelationships of humans with the living and nonliving environment.</p>
<p>MST4.C.LE7B: Living Environment Students explain the impact of technological development and growth in the human population on the living and nonliving environment.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on the impact of technological development and growth in the human population on the living and nonliving environment. LMS helps students analyze information gathered so that they will be able to explain the impact of the technological development and growth in the human population on the living and nonliving environment</p>

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	40. Analyze and synthesize information gathered.	

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST4.C.LE7C: Living Environment Students explain how individual choices and societal actions can contribute to improving the environment</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on ways to improve the environment. LMS helps students analyze information gathered so that they will be able to explain how individual choices and societal actions can contribute to improving the environment.</p>
<p>MST4.C.PS3.CH.A: Physical Setting, Chemistry Students explain the properties of materials in terms of the arrangement and properties of the atoms that compose them.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on the properties of materials. LMS helps students analyze information gathered so that they will be able to explain the properties of materials in terms of the arrangement and properties of the atoms that compose them.</p>
<p>MST4.C.PS4.PH.A: Physical Setting, Physics Students explain variations in wavelength and frequency in terms of the source of the vibrations that produce them, e.g., molecules, electrons and nuclear particles.</p>	<p>15. Locate books on the shelves by using call numbers. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print) 33. Search appropriate commercial electronic and online resources to access information. 40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on the vibrations produced by various sources. LMS helps students analyze information gathered so that they will be able to explain variations in wavelength and frequency in terms of the source of the vibrations that produce them.</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST4.C.PS4.CH.D: Physical Setting, Chemistry</p> <p>Students explain the benefits and risks of radioactivity.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on radioactivity.</p> <p>LMS helps students analyze information gathered so that they will be able to explain the benefits and risks of radioactivity.</p>
<p>MST4.C.PS5.PH.A: Physical Setting, Physics</p> <p>Students can explain and predict different patterns of motion of objects (e.g. linear and uniform circular motion, velocity, acceleration, momentum and inertia)</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on the different patterns of motion in objects..</p> <p>LMS helps students analyze information gathered so that they will be able to explain and predict different patterns of motion of objects.</p>
<p>MST4.C.PS5.PH.C: Physical Setting, Physics</p> <p>Students can compare energy relationships within an atom's nucleus to those outside the nucleus.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on energy within an atom's nucleus and outside the nucleus.</p> <p>LMS helps students analyze information gathered so that they will be able to compare energy relationships within an atom's nucleus to those outside the nucleus.</p>

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST4.C.PS5.CH.B: Physical Setting, Chemistry</p> <p>Students explain chemical bonding in terms of the behavior of electrons.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on chemical bonding.</p> <p>LMS helps students analyze information gathered so that they will be able to explain chemical bonding in terms of the behavior of electrons.</p>
<p>MST4.C.PS5.CH.C: Physical Setting, Chemistry</p> <p>Students can compare energy relationships within an atom's nucleus to those outside the nucleus.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print)</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>40. Analyze and synthesize information gathered.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on an atom's nucleus.</p> <p>LMS helps students analyze information gathered so that they will be able to compare energy relationships within an atom's nucleus to those outside the nucleus.</p>

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
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Standard 5: Technology

Students will apply technological knowledge and skills to design, construct, use, and evaluate products and systems to satisfy human and environmental needs.

<p>MST5.C.ED1A: Engineering Design Students initiate and carry out a thorough investigation of an unfamiliar situation and identify needs and opportunities for technological invention or innovation.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on a particular topic. LMS helps students analyze information gathered so that they will be able to present needs and opportunities for technological invention or innovation regarding a certain product or system.</p>
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Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.ED1B: Engineering Design Students identify, locate, and use a wide range of information resources including subject experts, library references, magazines, videotapes, films, electronic databases and on-line services and discuss and document through notes and sketches how findings relate to the problem.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on a particular topic. LMS helps students analyze information gathered so that they will be able to present how their findings relate to a certain problem.</p>

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.EDIC: Engineering Design Students generate creative solution ideas, break ideas into significant functional elements and explore possible refinements; predict possible outcomes using mathematical and functional modeling techniques; choose the optimal solution to the problem, clearly documenting ideas against design criteria and constraints; and explain how human values, economics, ergonomics and environmental considerations have influence the solution.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 37. Use multimedia software to produce presentations. 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on a particular topic. LMS helps students analyze information gathered so that they will be able to present ideas. LMS instructs students on the use of multimedia software to produce presentations.</p>

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.ED1D: Engineering Design Students develop work schedules and plans which include optimal use and cost of materials, processes, time and expertise; construct a model of the solution, incorporating developmental modifications while working to a high degree of quality (craftsmanship).</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 37. Use multimedia software to produce presentations. 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on a particular topic. LMS helps students analyze information gathered so that they will be able to present ideas. LMS instructs students on the use of multimedia software to produce presentations.</p>

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.ED1E: Engineering Design Students in a group setting devise a test of the solution relative to the design criteria and perform the test; record, portray and logically evaluate performance test results through quantitative, graphic and verbal means; and use a variety of creative verbal and graphic techniques effectively and persuasively to present conclusions, predict impacts and new problems and suggest and pursue modifications.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 37. Use multimedia software to produce presentations. 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on a particular topic. LMS helps students analyze information gathered so that they will be able to present ideas. LMS instructs students on the use of multimedia software to produce presentations.</p>

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MSTT.C.TR2A: Tools, Resources and Technological Processes</p> <p>Students test, use and describe the attributes of a range of material (including synthetic and composite materials), information and energy resources.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 37. Use multimedia software to produce presentations. 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on a particular topic.</p> <p>LMS helps students analyze information gathered so that they will be able to describe attributes of a range of material.</p> <p>LMS instructs students on the use of multimedia software to produce presentations.</p>

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.TR2B: Tools, Resources and Technological Processes</p> <p>Students select appropriate tools, instruments and equipment and use them properly to process materials, energy and information.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on various tools, instruments and equipment.</p> <p>LMS helps students analyze information gathered so that they will be able to select appropriate tools, instruments and equipment.</p>

Teacher / Library Media Specialist Points of Collaboration
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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.TR2C: Tools, Resources and Technological Processes</p> <p>Students explain tradeoffs made in selecting alternative resources in terms of safety, cost, properties, availability, ease of processing and disposability.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on alternative resources.</p> <p>LMS helps students analyze information gathered so that they will be able to explain tradeoffs made in selecting alternative resources.</p>

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.TR2D: Tools, Resources and Technological Processes</p> <p>Students describe and model methods (including computer-based methods) to control system processes and monitor system outputs.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on methods of controlling system processes and monitoring system outputs.</p> <p>LMS helps students analyze information gathered so that they will be able describe and model methods to control system processes and monitor system outputs.</p>

Teacher / Library Media Specialist Points of Collaboration
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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.CT3A: Computer Technology</p> <p>Students understand basic computer architecture and describe the function of computer subsystems and peripheral devices.</p>	<p>15. Locate books on the shelves by using call numbers.</p> <p>16. Locate and use magazines in the library.</p> <p>17. Use the card/electronic catalog to locate materials on particular subjects.</p> <p>23. Use pre-selected/bookmarked sites on the Internet.</p> <p>25. Be able to take simple notes.</p> <p>27. Select appropriate sources for reference information.</p> <p>29. Be able to paraphrase information.</p> <p>32. Use specialized encyclopedias and subject dictionaries (print and non-print).</p> <p>33. Search appropriate commercial electronic and online resources to access information.</p> <p>36. Use magazine indices to retrieve articles for pleasure and information (print/non-print).</p> <p>38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p> <p>39. Use a search strategy to access and retrieve information.</p> <p>40. Analyze and synthesize the information gathered.</p> <p>41. Use an electronic catalog to locate and borrow resources through interlibrary loan.</p> <p>46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic.</p> <p>LMS reviews advanced searching techniques.</p> <p>LMS supports students as needed in locating information on computer based architecture.</p> <p>LMS helps students analyze information gathered so that they understand basic computer architecture and describe the function of computer subsystems and peripheral devices.</p>

Teacher / Library Media Specialist Points of Collaboration
Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.CT3B: Computer Technology Students select a computer system that meets personal needs.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on computer systems. LMS helps students analyze information gathered so that they are able to select computer systems that meet personal needs.</p>
<p>MST5.C.CT3C: Computer Technology Students attach a modem to a computer system and telephone line, set up and use communications software, connect to various on-line networks, including the Internet and access needed information using email, telnet, gopher, ftp and web searches.</p>	<p>33. Search appropriate commercial electronic and online resources to access information. 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet.</p>	<p>LMS reviews advanced searching techniques.</p>

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Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.TS4A: Technological Systems Students explain why making tradeoffs among characteristics such as safety, function, cost, ease of operation, quality of post-purchase support and environmental impact is necessary when selecting systems for specific purposes.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on specific systems. LMS helps students analyze information gathered so that they are able explain why making tradeoffs is necessary when selecting systems for specific purposes.</p>

Teacher / Library Media Specialist Points of Collaboration
 Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.TS4B: Technological Systems Students model, explain and analyze the performance of a feedback control system.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on feedback control systems. LMS helps students analyze information gathered so that they are able to explain and analyze the performance of a feedback control system.</p>

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Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.TS4C: Technological Systems Students explain how complex technological systems involve the confluence of numerous other systems.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on complex technological systems. LMS helps students analyze information gathered so that they are able to how complex technological systems involve the confluence of numerous other systems.</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.HT5A: History and Evolution of Technology Students explain how technological inventions and innovations have caused global growth and interdependence, stimulated economic competitiveness, created new jobs and made other jobs obsolete.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on inventions. LMS helps students analyze information gathered so that they are able to explain the impact of technological inventions and innovations .</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.IT6A: Impacts of Technology Students explain that although technological effects are complex and difficult to predict accurately, humans can control the development and implementation of technology.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on technological effects. LMS helps students analyze information gathered so that they are able to explain that although technological effects are complex and difficult to predict, humans can control the development and implementation of technology.</p>

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Leatherstocking Library Information Literacy Skills Scope and Sequence

Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.IT6B: Impacts of Technology Students explain how computers and automation have changed the nature of work.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access & retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on the impact of computers and automation. LMS helps students analyze information gathered so that they are able to explain how computers and automation have changed the nature of work.</p>
<p>MST5.C.IT6C: Impacts of Technology Students explain how national security is dependent upon both military and non-military applications of technology.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access & retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on national security. LMS helps students analyze information gathered so that they are able to explain how national security is dependent upon both military and non-military applications of technology.</p>

Teacher / Library Media Specialist Points of Collaboration
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<p>MST5.C.MT7A: Management of Technology Students develop and use computer-based scheduling and project tracking tools such as flow charts and graphs.</p>	<p>37. Use multimedia software to produce presentations.</p>	<p>LMS will instruct students on how to use multimedia software to produce project tracking tools such as flow charts and graphs.</p>
<p>MST5.C.MT7C: Management of Technology Students discuss the role technology has played in the operation of successful U.S. businesses and under what circumstances they are competitive with other countries.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on successful U.S businesses and their competitiveness with other countries. LMS helps students analyze information gathered so that they are able to discuss the role technology has played in the operation of successful U.S. businesses and under what circumstances they are competitive with other countries.</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.MT7D: Management of Technology Students explain how technological inventions and innovations stimulate economic competitiveness and how in order for an innovation to lead to commercial success, it must be translated into products and services with marketplace demand.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on how technological inventions and innovations stimulate economic competitiveness. LMS helps students analyze information gathered so that they are able to explain how in order for an innovation to lead to commercial success, it must be translated into products and services with marketplace demand.</p>

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Curriculum Area: Math / Science / Technology - Commencement	Library/Information Skill Learner Outcome	Collaborative Lesson Ideas with Library Media Specialist
<p>MST5.C.MT7E: Management of Technology Students describe new management techniques (e.g., computer-aided engineering, computer-integrated manufacturing, total quality management, just-in-time manufacturing), incorporate some of these in a technological endeavor and explain how they have reduced the length of design-to-manufacture cycles, resulted in more flexible factories and improved quality and customer satisfaction.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 40. Analyze and synthesize the information gathered. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on new management techniques. LMS helps students analyze information gathered so that they are able to incorporate some new management techniques in a technological endeavor and explain how they have reduced the length of design-to-manufacture cycles, resulted in more flexible factories and improved quality and customer satisfaction.</p>

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Standard 6: Interconnectedness: Common Themes

Students will understand the relationships and common themes that connect mathematics, science, and technology and apply the themes to these and other areas of learning.

<p>MST6.C.MO2C: Models Students find and use mathematical models that behave in the same manner as the processes under investigation.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating mathematical models that behave in the same manner as the process under investigation.</p>
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Standard 7: Interdisciplinary Problem Solving

Students will apply the knowledge and thinking skills of mathematics, science, and technology to address real-life problems and make informed decisions.

<p>MST7.C.CN1A: Connections Students analyze science/technology/ society problems and issues on a community, national or global scale and plan and carry out a remedial course of action.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information on science/technology/society problems and issues. LMS helps students analyze information gathered so that they are able to plan and carry out a remedial course of action.</p>
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<p>MST7.C.CN1B: Connections Students analyze and quantify consumer product data, understand environmental and economic impacts, develop a method for judging the value and efficacy of competing products and discuss cost/benefit and risk/benefit tradeoffs made in arriving at the optimal choice.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating information consumer product data. LMS helps students analyze and quantify consumer product data understand environmental and economic impacts, develop a method for judging the value and efficacy of competing products and discuss cost/benefit and risk/benefit tradeoffs made in arriving at the optimal choice.</p>

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<p>MST7.C.CNIC: Connections Students design solutions to real-world problems on a community, national or global scale using a technological design process that integrates scientific investigation and rigorous mathematical analysis of the problem and of the solution.</p>	<p>15. Locate books on the shelves by using call numbers. 16. Locate and use magazines in the library. 17. Use the card/electronic catalog to locate materials on particular subjects. 23. Use pre-selected/bookmarked sites on the Internet. 25. Be able to take simple notes. 27. Select appropriate sources for reference information. 29. Be able to paraphrase information. 32. Use specialized encyclopedias and subject dictionaries (print and non-print). 33. Search appropriate commercial electronic and online resources to access information. 36. Use magazine indices to retrieve articles for pleasure and information (print/non-print). 38. Use appropriate search engines, metasearch engines and directories to access information on the Internet. 39. Use a search strategy to access and retrieve information. 41. Use an electronic catalog to locate and borrow resources through interlibrary loan. 46. Use advanced features on electronic databases.</p>	<p>LMS reviews available resources pertinent to the topic. LMS reviews advanced searching techniques. LMS supports students as needed in locating specific information. LMS helps students integrate information into solutions to real-world problems.</p>