Technology - Grade Six

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 1: Identify a need for technology in the home and identify the proper care of technological systems and components.

MCF Benchmark: 1.MS.1,6

Analysis of Benchmark

Key Concepts
- Technology affects life.
- Technology needs to be maintained to work properly.
- There is a need for new and efficient technologies.

Evidence of Achievement
- Students will share drawings of technological systems.

Instructional Activities
- Teacher and students list the technology found in homes.
- Teachers and students list ways to take care of the technology items in the home.
- Using a drawing program, students will create one way to take care of the technology item of their choice.

Curriculum Integration
ART:MCF IV.4.MS.2

ELA:MCF 1.MS.5 3.MS.6,8 8.MS.1 11.MS.2

Resources
Appendix: Software List (Drawing)

Assessment

Title of Task: Technology at Home	**Grade:** Six
Standard & Benchmark: TEC.1.MS.1	

Assessment Task

Students share drawings of how to take care of a technology item.

Scoring Guide Criteria

- Drawing

Beginning	Developing	**Achieving**	Exceeding
		Students create a drawing showing one way to take care of a technology item.	

Technology - Grade Seven

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 1: Identify a need for technology in the home and identify the proper care of technological systems and components.

MCF Benchmark: 1.MS.1,6

Analysis of Benchmark

Key Concepts
- Technology affects life.
- Technology needs to be maintained to work properly.
- There is a need for new and efficient technology.

Evidence of Achievement
- Students will describe how technology affects life.
- Students will present their drawings to others.

Instructional Activities
- The teacher will list the technology items found in homes.
- The teacher and students list ways to take care of the technology items in the home.
- Using a drawing program students will create a picture to show how to take care of the technology item of their choice.
- Using a drawing program students will write a sentence to explain how to take care of the technology item.

Curriculum Integration
ART:MCF IV.4.MS.2

ELA:MCF 1.MS.5 3.MS.6,8 8.MS.1 11.MS.2

Resources
Appendix: Software List (Drawing software)

Assessment

Title of Task: Addressing Issues	**Grade:** Seven
Standard & Benchmark: TEC.1.MS.3	

Assessment Task

Students prepare a multimedia presentation and correctly cite the online resources.

Scoring Guide Criteria

- Research
- Create a multimedia presentation
- Cite sources

Beginning	Developing	**Achieving**	Exceeding
		Students use the internet to research a social, civic, and economic issue. Students use a multimedia program to create a report. Students correctly cite online sources in the multimedia presentation.	

Technology - Grade Eight

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 1: Identify a need for technology in the home and identify the proper care of technological systems and components.

MCF Benchmark: 1.MS.1,6

Analysis of Benchmark

Key Concepts
- Technology affects life.
- Technology needs to be maintained to work properly.
- There is a need for new and efficient technology.

Evidence of Achievement
- Students will describe how technology affects life.
- Students will present research findings.

Instructional Activities
- Teacher and students list the technology items found in homes.
- Teacher and students list ways to take care of the technology items in the home.
- Using a drawing program, students will create different ways to take of the technology items.
- Using the Internet students will research the manufacturers suggested product care and maintenance.
- Students will insert their pictures from the drawing program into a word processor and develop three paragraphs summarizing their Internet research.

Curriculum Integration
ART:MCF IV.4.MS.2

ELA:MCF 1.MS.5 3.MS.6,8 8.MS.1 11.MS.2

Resources
Appendix: Software List (Drawing, Word Processor)

Assessment

Title of Task: Technology at Home	**Grade:** Eight
Standard & Benchmark: TEC.1.MS.1	

Assessment Task

Students describe how technology affects life and present drawings and research findings of how to take care of a technology item to others.

Scoring Guide Criteria

- Drawing
- Research
- Summary

Beginning	Developing	**Achieving**	Exceeding
		Students create a drawing of different ways to take of the technology items. Using the Internet students will research the manufacturers suggested product care and maintenance. Students insert their pictures from the drawing program into a word processor and develop three paragraphs summarizing their Internet research.	

Technology - Grade Six

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 2: Use technology to create a model to sell a technological product or service.

MCF Benchmark: 1.MS.2,3 1.EE.3 1.LE.3

Analysis of Benchmark

Key Concepts
- Technology can be used for creative expression.
- Technology can be used for communication of ideas.

Evidence of Achievement
- Students will present a flyer to sell a technological product.

Instructional Activities
- Teacher and students suggest/create a list of technological toy products/services to sell.
- Students draw a model.
- Students create a flyer.

Curriculum Integration
ART:MCF IV.4.MS.2

ELA:MCF 1.MS.1 2.MS.1,3 3.MS.1,2,3,4 4.MS.5 8.MS.4,5 11.MS.1

SCI:MCF I.1.MS.3

Resources
Appendix: Software List (Drawing, Word Processor, Desktop Publishing)

Assessment

Title of Task: Technology Model	**Grade:** Six
Standard & Benchmark: TEC.1.MS.2	

Assessment Task

Students create and present a flyer to sell a technological product or service.

Scoring Guide Criteria

- Model
- Flyer

Beginning	Developing	**Achieving**	Exceeding
		Students draw a model of a technological product or service. Students create a flyer to sell the product or service.	

Technology - Grade Seven

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 2: Use technology to create a model to sell a technological product or service.

MCF Benchmark: 1.MS.2,3 1.EE.3 1.LE.3

Analysis of Benchmark

Key Concepts
- Technology can be used for creative expression.
- Technology can be used for communication of ideas.

Evidence of Achievement
- Students will create a flyer about a technological product.
- Students will a present commercial.

Instructional Activities
- Teacher and students will suggest and brainstorm an electronic game to sell.
- Students will draw a model.
- Students will create flyer.
- Students will storyboard the commercial.

Curriculum Integration
ART:MCF IV.4.MS.2

ELA:MCF 1.MS.1 2.MS 1,3 3.MS.1,2,3,4 4.MS.5 8.MS.4,5 11.MS.1

SCI:MCF I.1.MS.3

Resources
Appendix: Software List (Drawing, Multimedia, Word Processing)

Assessment

Title of Task: Technology Model	**Grade:** Seven
Standard & Benchmark: TEC.1.MS.2	

Assessment Task

Students present a flyer selling an electronic game. Students create a multimedia presentation commercial depicting the game.

Scoring Guide Criteria

- Draw a game
- Create a flyer
- Create a commercial

Beginning	Developing	**Achieving**	Exceeding
		Students draw a model of an electronic game. Students create a flyer. Students create a five slide storyboard of the commercial using a multimedia program.	

Technology - Grade Eight

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 2:Use technology to create a model to sell a technological product or service.

MCF Benchmark: 1.MS.2,3 1.EE.3 1.LE.3

Analysis of Benchmark

Key Concepts
- Technology can be used for computer expression.
- Technology can be used for communication of ideas.

Evidence of Achievement
- Students will complete a webpage.
- Students will generate a means for financial transfer on the webpage.

Instructional Activities
- Teachers and students suggest and brainstorm an electronic music product or service to sell.
- Students draw a model using a drawing program.
- Students create a one page webpage.
- Students define the possibilities of financial transfer within the webpage.

Curriculum Integration
ART: MCF IV.4.MS.2

ELA: MCF 1.MS.1 2.MS.1,3 3.MS.1,2,3,4 4.MS.5 8.MS.4,5 11.MS.1

SCI:MCF I.1.MS.3

Resources
Appendix: Grade Eight – Standard 1, Software List (Drawing, Web Design)

Assessment

Title of Task: Technology Model	**Grade:** Eight
Standard & Benchmark: TEC.1.MS.2	

Assessment Task

Students create a webpage with means for financial transfer to sell an electronic music product or service.

Scoring Guide Criteria

- Model
- Webpage
- Evidence of financial transfer

Beginning	Developing	**Achieving**	Exceeding
		Students draw a model of an electronic music product or service. Students create a one page webpage. Within the webpage students define the possibilities of financial transfer.	

Technology - Grade 6

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 3: Demonstrate technological resources and systems that might be used to address social, civic, and economic issues.

MCF Benchmark: 1.MS.4

Analysis of Benchmark

Key Concepts
- Online resources can be used to research social, civic, and economic issues.
- Internet resources are vast.
- Online information needs to be analyzed and discerned.

Evidence of Achievement
- Students will prepare a multimedia presentation.
- Students will demonstrate proper search procedures.

Instructional Activities
- Teacher and students brainstorm key words to be used in search engine.
- Teacher models keyword searches using Yahooligans, Ask Jeeves for Kids or other school-related search engines.
- Teacher compares and contrasts the different websites.
- Students use the Internet to research a social, civic, and economic issue.
- Students use a multimedia program to identify the issues.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6

MAT:MCF III.1.MS.1,3 III.2.MS.1,3,4,5

SCI:MCF II.MS.1,2,3,4,6

SOC: MCF V.1MS.1,2 V.2.MS.2,3

Resources
Appendix: Grade Six – Standard 1, Software List (Multimedia)

Assessment

Title of Task: Addressing Issues	**Grade:** Six
Standard & Benchmark: TEC.1.MS.3	

Assessment Task

Students use a multimedia program to identify and present a social, economic, or civic issue that can be addressed using technology.

Scoring Guide Criteria

- Research
- Multimedia presentation

Beginning	Developing	**Achieving**	Exceeding
		Students use the internet to research a social, economic, or civil issue. Students create a multimedia presentation.	

Technology - Grade Seven

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 3: Demonstrate technological resources and systems that might be used to address social, civic, and economic issues.

MCF Benchmark: 1.MS.4

Analysis of Benchmark

Key Concepts
- Online resources can be used to research social, civic, and economic issues.
- Online resources are vast.
- Online information needs to be analyzed and discerned.

Evidence of Achievement
- Students will prepare a multimedia presentation.
- Students will correctly site the online resources.
- Students will demonstrate correct search procedures.

Instructional Activities
- Teacher and students will brainstorm keywords to be used in their search engines.
- Teacher will model keyword searches.
- Teacher will model keyword searches using Boolean operations.
- Students will compare and contrast the different web sites.
- Students will use the internet to research a social, civic, or economic issue.
- Students will use a multimedia program to create a report that discusses the issues.

Curriculum Integration
ART:MCF: IV.MS.1,3,4 IV.2.MS.1,2,6

MAT:MCF III.1.MS.1,3 III.2.MS.1,3,4,5

SCI:MCF II.1.MS.1,2,3,4,6

SOC: MCF IV.1.MS.1,2 V.2.MS.2,3

Resources
Appendix: Grade Seven – Standard 1, Software List (Multimedia software)

Assessment

Title of Task: Addressing Issues	**Grade:** Seven
Standard & Benchmark: TEC.1.MS.3	

Assessment Task

Students prepare a multimedia presentation and correctly cite the online resources.

Scoring Guide Criteria

- Research
- Create a multimedia presentation
- Cite sources

Beginning	Developing	**Achieving**	Exceeding
		Students use the internet to research a social, civic, and economic issue. Students use a multimedia program to create a report. Students correctly cite online sources in the multimedia presentation.	

Technology - Grade Eight

Concept: Using and Transferring

Standard 1: All students will use and transfer technological knowledge and skills for life roles (e.g., family member, citizen, worker, consumer, lifelong learner).

Benchmark 3: Demonstrate technological resources and sytems that might be used to address social, civic, and economic issues.

MCF Benchmark: 1.MS.4

Analysis of Benchmark

Key Concepts
- Online resources can be used to research social, civic, and economic issues.
- Online resources are vast.
- Online resources need to be analyzed and discerned.

Evidence of Achievement
- Students will complete a project using a multimedia program.
- Students will correctly cite on-line resources.
- Students will demonstrate proper search procedures.

Instructional Activities
- Teacher and students brainstorm keywords to be used in search engines.
- The teacher models key searches using Boolean operators.
- Students compare and contrast the different websites.
- Using the Internet, students will research social, civic, and economics issues.
- Students use a multimedia program to create a report that discusses the issues.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6

MAT:MCF III.1.MS.1,3 III.2.MS.1,3,4,5

SCI:MCF II.1.MS.1,2,3,4,6

SOC:MCF IV.1.MS.1,2 V.2.MS.2,3

Resources
Appendix: Software List (Multimedia), Internet search engines (e.g., Google, Yahoo, Ask Jeeves)

Assessment
See TEC.1.MS.3 (Grade Seven)

Technology - Grade Six

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 1: Demonstate skill using technologies to prepare, evaluate, and synthesize information collected and stored (e.g., voice, data, video, graphics).

MCF Benchmark: 2.MS.1

Analysis of Benchmark

Key Concepts
- Operating systems can be used to organize and synthesize information.
- Organized and synthesized information is easily accessed.

Evidence of Achievement
- Students will successfully collect, store, and retrieve data.

Instructional Activities
- Teacher demonstrates how to access the home directory.
- Teacher models the creation of a folder to store data.
- Students create a folder.
- Students store data including graphics, video, and voice.

Curriculum Integration
ELA:MCF 11.MS.2,3

Resources
Appendix: Standard Classroom List

Assessment

Title of Task: Collecting and Storing	**Grade:** Six
Standard & Benchmark: TEC.2.MS.1	
Assessment Task Students collect, store, and retrieve assigned data.	
Scoring Guide Criteria • Storage of data	

Beginning	Developing	**Achieving**	Exceeding
		Students create a folder. Students store data including graphics, video, and voice.	

Technology - Grade Seven

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 1: Demonstrate skills using technologies to prepare, evaluate, and synthesize information collected and stored (e.g., voice, data, video, graphics).

MCF Benchmark: 2.MS.1

Analysis of Benchmark

Key Concepts
- Computers have an operating system.
- Organized and synthesized information is easily accessed.

Evidence of Achievement
- Students will successfully collect, store, and retrieve information.

Instructional Activities
- The teacher will demonstrate knowledge of basic operating systems.
- The teacher will demonstrate the creation of folders.
- The teacher will demonstrate saving information in home directory.
- The teacher will demonstrate the retrieval of documents or files.
- Students will identify and select items to be organized in the folder.
- Students will gather information and store in appropriate folder.

Curriculum Integration
ELA:MCF 11.MS.2,3

Resources
Appendix: Grade Seven – Standard 2

Assessment

Title of Task: Collecting and Storing	**Grade:** Seven
Standard & Benchmark: TEC.2.MS.1	

Assessment Task

Students collect, store, and retrieve assigned data.

Scoring Guide Criteria

- Organize
- Store

Beginning	Developing	**Achieving**	Exceeding
		The students identify and select items to be organized in the folder. The students gather information and store in appropriate folder.	

Technology - Grade Eight

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 1: Demonstrate skill using technologies to prepare, evaluate, and synthesize information collected and stored (e.g., voice, data, video, graphics).

MCF Benchmark: 2.MS.1

Analysis of Benchmark

Key Concepts
- Computers contain a variety of operating systems.
- Organized and synthesized information is easily accessed.

Evidence of Achievement
- Students will successfully collect, store, and retrieve information.

Instructional Activities
- Teacher demonstrates knowledge of basic operating systems (e.g., Windows, MAC).
- Teacher demonstrates the saving and retrieving from the home directory.
- Teacher demonstrates the creation of a folder.
- Students identify and select items to be organized within the folders.
- Students gather information and store in correct folders.

Curriculum Integration
ELA:MCF 11.MS.2,3

Resources
Appendix: Grade Eight – Standard 2

Assessment
See TEC.2.MS.1 (Grade Seven)

Technology - Grade Six

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 2: Gather information about a given problem, develop possible solutions, and generate a best solution using multiple technologies. Retrieve, input, and communicate information using a technological system.

MCF Benchmark: 2.MS.2,3

Analysis of Benchmark

Key Concepts
- Information is needed to solve problems.
- Online resources can provide possible solutions.
- There can be various solutions to a problem.
- Multimedia can be used to communicate solutions.

Evidence of Achievement
- Students will complete a graphical organizer.
- Students will create a multimedia presentation.

Instructional Activities
- Teacher and students brainstorm possible problems using a graphical organizer.
- Students use the Internet to gather information.
- Students identify and compare possible solutions for the problem.
- Students indicate the best solution.
- Students communicate a possible solution using a multimedia presentation.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6

ELA: MCF 11.MS.2,3,4

MAT:MCF III.1.MS.1,2,3

SCI:MCF II.1.MS.1,2,3,4,6

Resources
Appendix: Software List (Graphical Organizers, Multimedia)

Assessment

Title of Task: Best Solution	**Grade:** Six
Standard & Benchmark: TEC.2.MS.2	

Assessment Task

Students complete a multimedia presentation of best possible solutions.

Scoring Guide Criteria

- List of information
- Multimedia presentation

Beginning	Developing	**Achieving**	Exceeding
		Students create a list of the best solution. Students communicate a possible solution using a multimedia presentation with five slides.	

Technology - Grade Seven

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 2: Gather information about a given problem, develop possible solutions, and generate a best solutions using multiple technologies; Retrieve, input, and communicate information using a technological system.

MCF Benchmark: 2.MS.2,3

Analysis of Benchmark

Key Concepts
- Brainstorming is a gathering and problem solving technique.
- Online resources can be used to gather information.
- Organizational skills can help solve problems.
- Multimedia programs can be used as a commucation tool.

Evidence of Achievement
- Students will complete a multimedia presentation of best possible solution.

Instructional Activities
- The teacher and students will brainstorm different problems.
- The teacher will demonstrate the use of the internet to gather information.
- Students will generate information about possible solutions to the problem.
- Students will make an organized list of problems.
- Students will examine information to choose best solution.
- Students will create a multimedia presentation to communicate best solution.

Curriculum Integration
ART:MCF: IV.MS.1,3,4 IV.2.MS.1,2,6

ELA:MCF 11.MS.2,3,4

MAT:MCF III.1.MS.1,2,3

SCI:MCF II.1.MS.1,2,3,4,6

Resources:
Appendix: Software List (Graphical Organizer, Multimedia)

Assessment
See TEC.2.MS.2 (Grade Six)

Technology - Grade Eight

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 2: Gather information about a given problem, develop possible solutions, and generate a best solution using multiple technologies. Retrieve, input, and communicate information using a technological system.

MCF Benchmark: 2.MS.2,3

Analysis of Benchmark

Key Concepts
- Brainstorming is a problem solving technique.
- Information is needed to solve problems.
- Online resources can provide possible solutions.
- Multimedia can be used to communicate possible solutions.

Evidence of Achievement
- Students will prepare an outline of possible solutions.
- Students will complete a multimedia presentation.

Instructional Activities
- Teacher and students brainstorm possible problems.
- Teacher demonstrates the use of the Internet to gather information for possible solution to problem.
- Students generate possible solutions to the problem.
- Students present possible solutions using a multimedia presentation.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6

ELA:MCF 11.MS.2,3,4

MAT:MCF III.1.MS.1,2,3

SCI:MCF II.1.MS.1,2,3,4,6

Resources
Appendix: Software List (Multimedia)

Assessment

<table>
<tr><td colspan="2">Title of Task: Best Solution</td><td colspan="2">Grade: Eight</td></tr>
<tr><td colspan="4">Standard & Benchmark: TEC.2.MS.2</td></tr>
<tr><td colspan="4">Assessment Task

Students complete a multimedia presentation of best possible solutions.</td></tr>
<tr><td colspan="4">Scoring Guide Criteria

• Research
• Multimedia presentation</td></tr>
<tr><td>Beginning</td><td>Developing</td><td>Achieving</td><td>Exceeding</td></tr>
<tr><td></td><td></td><td>Students use the Internet to gather information for possible solution to problem and generate possible solutions to the problem.

Students present possible solutions using a multimedia presentation of nine slides.</td><td></td></tr>
</table>

Technology - Grade Six

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 3: Evaluate information received through technologies.

MCF Benchmark: 2.MS.4

Analysis of Benchmark

Key Concepts
- Technology is a tool for research.
- Technology information is gathered in different formats.
- All information needs to be evaluated for validity.
- The Internet is a valuable tool for evaluation.

Evidence of Achievement
- Students will complete a technology rubric.

Instructional Activities
- Teacher models a website evaluation rubric.
- Students evaluate teacher assigned websites for validity using the evaluation rubric.
- The student completes the technology rubric.

Curriculum Integration
ELA: MCF 12.MS.3

SCI: MCF II.1.MS.3

SOC: MCF V.1.MS.2,3

Resources
Appendix: Grade Six – Standard 2

Assessment

<table>
<tr><td colspan="2">Title of Task: Evaluation Rubric</td><td colspan="2">Grade: Six</td></tr>
<tr><td colspan="4">Standard & Benchmark: TEC.2.MS.3</td></tr>
<tr><td colspan="4">Assessment Task

Students complete an evaluation rubric.</td></tr>
<tr><td colspan="4">Scoring Guide Criteria

• Rubric</td></tr>
<tr><td>Beginning</td><td>Developing</td><td>Achieving</td><td>Exceeding</td></tr>
<tr><td></td><td></td><td>Students (develop) and complete the rubric.</td><td></td></tr>
</table>

Technology - Grade Seven

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 3: Evaluate information received through technologies.

MCF Benchmark: 2.MS.4

Analysis of Benchmark

Key Concepts
- Technology is a research tool.
- Technology information is gathered in different formats.
- All information needs to be evaluated for validity.
- The internet is a valuable tool for evaluation.

Evidence of Achievement
- Students will complete a technology evaluation rubric.

Instructional Activities
- The teacher will model a web site rubric.
- Students will use teacher assigned web sites to evaluate for validity.
- Students will report why assigned web sites are valid or not valid.

Curriculum Integration
ELA:MCF: 12.MS.3

SCI:MCF II.1.MS.3

SOC:MCF V.1.MS.2,3

Resources
Appendix: Grade Seven – Standard 2

Assessment
See TEC.2.MS.3 (Grade Six)

Technology - Grade Eight

Concept: Using Information Technologies

Standard 2: All students will use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information.

Benchmark 3: Evaluate information received through technologies.

MCF Benchmark: 2.MS.4

Analysis of Benchmark

Key Concepts
- Technology is a tool for research.
- Technology information is gathered in different formats.
- All information needs to be evaluated for validity.
- The Internet is a valuable tool for evaluation.

Evidence of Achievement
- Students will complete a technology rubric.

Instructional Activities
- Teacher models a web site evaluation rubric.
- Students evaluate web sites assigned by the teacher for validity.
- Students complete a "hoax" web site rubric.
- Students analyze and critique the "hoax" web sites.

Curriculum Integration
ELA: MCF 12.MS.3

SCI:MCF II.1.MS.3

SOC:MCF V.1.MS.2,3

Resources
Appendix: Grade Eight – Standard 2

Assessment

Title of Task: Evaluation Rubric	**Grade:** Eight
Standard & Benchmark: TEC.2.MS.3	
Assessment Task Students complete an evaluation rubric.	
Scoring Guide Criteria • Rubric	

Beginning	Developing	**Achieving**	Exceeding
		Students complete a "hoax" web site rubric.	

Technology - Grade Six

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 1: Investigate how different cultures use technology to solve similar problems.

MCF Benchmark: 3.MS.1

Analysis of Benchmark

Key Concepts
- Different technologies are used for different problems.
- Cultures have different technological advancements.
- Cultures may or may not use technologies available to them because of cultural differences.

Evidence of Achievement
- Students will present findings in report form.

Instructional Activities
- Teacher and students brainstorm similar problems between Western cultures and the United States.
- Students select a problem that can be solved by technology.
- Students research how the two cultures use technology to address the problem.
- Students compare and contrast how technology is used to solve the problem in each culture.
- Students record the information using report form.

Curriculum Integration
ART: MCF IV.4.MS.2

ELA:MCF 9.MS.1,2,3 10.MS.1,2,3 11.MS.1,2,3,4,

SCI:MCF I.1.MS.1,3,5 II.1.MS.3 II.2.MS.1,3,4,6

SOC:MCF II.1.MS.2 II.4.MS.3 V.1.MS.1 V.2.MS.2,3

Resources
Appendix: Software List (Word Processing)

Assessment

Title of Task: Cultural Report	**Grade:** Six
Standard & Benchmark: TEC.3.MS.1	

Assessment Task

Students present a report on how two cultures use technology to solve problems.

Scoring Guide Criteria

- Research
- Report

Beginning	Developing	**Achieving**	Exceeding
		Students select a problem that can be solved by technology and research how the two cultures use technology to address the problem. Students compare and contrast how technology is used to solve the problem in each culture and record the information using a report form.	

Technology - Grade Seven

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 1: Investigate how different cultures use technology to solve similar problems.

MCF Benchmark: 3.MS.1

Analysis of Benchmark

Key Concepts
- Different technologies are used for different problems.
- Cultures have different technology advances.
- Cultures may or may not use technologies available to them because of cultural differences.

Evidence of Achievement
- Students will present findings in report form.

Instructional Activities
- The teacher and students will brainstorm similar problems between eastern culture and the United States.
- Students will identify similar problems that can be solved by technology.
- Students will research how the two cultures use technology to address the problem.
- Students will compare and contrast the technologies used to solve the problem in each culture.
- Student will record the information in report form.

Curriculum Integration
ART:MCF IV.4.MS.2

ELA:MCF 9.MS.1,2,3 10.MS.1,2,3 11.MS.1,2,3,4

SCI:MCF I.1.MS.1,3,5 II.1.MS.3 II.2.MS.1,3,4,6

SOC:MCF II.1.MS.2 II.4.MS.3 V.1.MS.1 V.2.MS.2, 3

Resources
Appendix: Software List (Word Processing)

Assessment
See TEC.3.MS.1 (Grade Six)

Technology - Grade Eight

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 1: Investigate how different cultures use technology to solve similar problems.

MCF Benchmark: 3.MS.1

Analysis of Benchmark

Key Concepts
- Different technologies are used for different problems.
- Different cultures have different technological advancements.
- Different cultures may use or not use different technologies available to them because of cultural differences.

Evidence of Achievement
- Students will present findings in multimedia presentation.

Instructional Activities
- Student will identify different cultures use of technology.
- Teacher will lead a discussion on different cultures use of technology.
- Teacher and students will identify problems that can be solved using technology.
- Students will research one culture's use of technology to address the problem.
- Students will create a multimedia presentation with the results of their research.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6 IV.4.MS.2

ELA:MCF 9.MS.1,2,3 10.MS.1,2,3 11.MS.1,2,3,4

SCI:MCF I.1.MS.1,3,5 II.1.MS.3 II.2.MS.1,3,4,6

SOC:MCF II.1.MS.2 II.4.MS.3 V.1.MS.1 V.2.MS.2,3

Resources
Appendix: Software List (Multimedia)

Assessment

Title of Task: Cultural Presentation	**Grade:** Eight
Standard & Benchmark: TEC.3.MS.1	

Assessment Task

Students create a multimedia presentation on how one culture uses technology to solve a problem.

Scoring Guide Criteria

- Research
- Create multimedia presentation

Beginning	Developing	**Achieving**	Exceeding
		Students select a problem that can be solved by technology and research how the cultures use technology to address the problem. Students create a multimedia presentation to present their findings.	

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 2: Use technologies as tools for creative expression and communication of ideas (e.g., voice, data, video, graphics).

MCF Benchmark: 3.MS.2

Analysis of Benchmark

Key Concepts
- Technology can be used for creative expression.
- Technology can be used for communication of ideas.

Evidence of Achievement
- Students will import a cartoon image from the Internet into a drawing program.
- Students will manipulate a digital camera picture.

Instructional Activities
- Teachers take a digital camera picture of each student's face.
- Students manipulate the image in a drawing program.
- Students import a cartoon character from the Internet into a drawing program.
- Students create a new cartoon character using the student's facial image.
- Students identify the cartoon character.

Curriculum Integration
ART: MCF IV.4.MS.2

ELA: MCF 3.MS.1,8 4.MS.5 8.MS.4,5

SCI:MCF III.2.MS.1

Resources
Appendix: Grade Six – Standard 3, Software List (Drawing)

Assessment

Title of Task: Cartoon Network	**Grade:** Six
Standard & Benchmark: TEC.3.MS.2	

Assessment Task

Students import a cartoon image from the Internet into a drawing program and manipulate it into a digital camera picture.

Scoring Guide Criteria

- Imported image
- Identification of image

Beginning	Developing	**Achieving**	Exceeding
		Students import a cartoon character from the Internet into a drawing program and create a new cartoon character using the student's facial image. Students identify the cartoon character.	

Technology - Grade Seven

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 2: Use technologies as tools for creative expression and communication of ideas (e.g., voice, data, video, graphics).

MCF Benchmark: 3.MS.2

Analysis of Benchmark

Key Concepts
- Technology can be used as creative expression.
- Technology can be used for communication of ideas.

Evidence of Achievement
- Students will create an undiscovered animal in a drawing program.

Instructional Activities
- The student is an archeologist and discovers a hypothetical animal.
- The teacher and student will brainstorm what the animal will look like.
- The student will use the internet to import two animal outlines/coloring pages.
- Students will cut and paste parts of the animal to create new animal.
- Students will design a new look and texture of new animal.
- Students will write a paragraph in a writing program about the new animals' adaptation to its new environment.

Curriculum Integration
ART:MCF IV.4.MS.2

ELA:MCF 3.MS.1,8 4.MS.5 8.MS.4,5

SCI:MCF III.2.MS.1

Resources
Appendix: Grade Seven – Standard 3, Software List (Drawing, Word Processing)

Assessment

Title of Task: Create a New Animal	**Grade:** Seven
Standard & Benchmark: TEC.3.MS.2	

Assessment Task

Students import two animals from the Internet into a drawing program and manipulate it into one animal. Students write a paragraph describing their new animal.

Scoring Guide Criteria

- Create new animal
- Essay

Beginning	Developing	**Achieving**	Exceeding
		Students use the internet to import two animal and cut and paste parts of the animal to create new animal altering the design. Students write a paragraph describing their animal.	

Technology - Grade Eight

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 2: Use technologies as tools for creative expression and communication of ideas (e.g., voice, data, video, graphics).

MCF Benchmark: 3.MS.2

Analysis of Benchmark

Key Concepts
- Technology can be used as creative expression.
- Technology can be used for communication of ideas.

Evidence of Achievement
- Students will complete a multimedia presentation using music lyrics.

Instructional Activities
- The teacher outlines the requirements for a successful presentation.
- Students research music lyrics on the Internet.
- Students organize music lyrics into sections.
- Students review multimedia backgrounds for music lyrics.
- Students import appropriate images and animations to depict song lyrics.
- Students create a timed music multimedia presentation.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6 IV.4.MS.2

ELA:MCF 3.MS.1,8 4.MS.5 8.MS.4,5

SCI:MCF III.2.MS.1

Resources
Appendix: Grade Eight – Standard 3, Software List (Multimedia)

Assessment

Title of Task: Music Video	**Grade:** Eight
Standard & Benchmark: TEC.3.MS.2	

Assessment Task

Students use the lyrics of their favorite song to create a multimedia presentation with images and animation to depict the song.

Scoring Guide Criteria

- Research
- Multimedia presentation

Beginning	Developing	**Achieving**	Exceeding
		Students research on the Internet their favorite song - finding lyrics, images, graphics, and pictures that would depict the song. Students create a multimedia presentation with animation and timing.	

Technology - Grade Six

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 3: Use several technological methods to perform a given task and analyze advantages and disadvantages of each.

MCF Benchmark: 3.MS.3

Analysis of Benchmark

Key Concepts
- Technology methods have advantages and disadvantages.
- Analyzing tasks can be done using different methods.

Evidence of Achievement
- Students will draw conclusions from a class discussion.

Instructional Activities
- Teacher and students discuss the differences between three methods of charting information (paper/pencil/website/Excel).
- The teacher models how a chart is created.
- Students chart information.

Curriculum Integration
MAT:MCF I.1.MS.2,3 III.1.MS.1,2,3,4,5

SCI:MCF II.1.MS.3

SOC:MCF V.1.MS.1,2,3 V.2.MS.2,3,4

Resources
Appendix: Grade Six – Standard 3, Software List (Spreadsheet)

Assessment

<table>
<tr><td colspan="2">Title of Task: Analysis of Tasks</td><td colspan="2">Grade: Six</td></tr>
<tr><td colspan="4">Standard & Benchmark: TEC.3.MS.3</td></tr>
<tr><td colspan="4">Assessment Task

Students participate in class discussion and draw conclusions.</td></tr>
<tr><td colspan="4">Scoring Guide Criteria

• Teacher observation</td></tr>
<tr><td>Beginning</td><td>Developing</td><td>Achieving</td><td>Exceeding</td></tr>
<tr><td></td><td></td><td>Teacher and students discuss the differences between three methods of charting information (paper/pencil/website/Excel).</td><td></td></tr>
</table>

Technology - Grade Seven

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 3: Use several technological methods to perform a given task and anaylze advantages and disadvantages of each.

MCF Benchmark: 3.MS.3

Analysis of Benchmark

Key Concepts
- Technology methods have advantages and disadvantages.
- Anaylzing tasks can be done using different methods.

Evidence of Achievement
- Draw a conclusion from the discussion.

Instructional Activities
- The teacher will discuss the differences between three methods of using a table (paper pencil, word processor, and spreadsheet).

Curriculum Integration
MAT:MCF I.1.MS.2,3 III.1.MS.1,2,3,4,5

SCI:MCF II.1.MS.3

SOC:MCF V.1.MS.1,2,3 V.2.MS.2,3,4

Resources
Appendix: Grade Seven – Standard 3, Software List (Word Processor, Spreadsheet)

Assessment

Title of Task: Analysis of Tasks	**Grade:** Seven
Standard & Benchmark: TEC.3.MS.3	

Assessment Task

Students participate in class discussion and draw conclusions.

Scoring Guide Criteria

- Teacher observation

Beginning	Developing	**Achieving**	Exceeding
		The teacher discusses the differences between three methods of using a table (paper pencil, word processor, spreadsheet).	

Technology - Grade Eight

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 3: Use technological methods to perform a given task and anaylze advantages and disadvantages of each.

MCF Benchmark: 3.MS.3

Analysis of Benchmark

Key Concepts
- Technology methods have advantages and disadvantages.
- Anaylzing tasks can be done using different methods.

Evidence of Achievement
- Students will draw conclusions from a class discussion.

Instructional Activities
- Teacher discusses the differences between book research and Internet research.
- Teacher and students compare and contrast different technological methods.
- Students identify different technology methods.

Curriculum Integration
MAT:MCF I.1.MS.2,3 III.1.MS.1,2,3,4,5

SCI:MCF II.1.MS.3

SOC:MCF V.1.MS.1,2,3 V.2.MS.2,3,4

Resources
Appendix: Standard Classroom List

Assessment

Title of Task: Analysis of Task	**Grade:** Eight
Standard & Benchmark: TEC.3.MS.3	

Assessment Task

Students participate in class discussions and draw conclusions.

Scoring Guide Criteria

- Teacher observation
- Conclusions

Beginning	Developing	**Achieving**	Exceeding
		Teacher discusses the differences between book research and Internet research. Students report conclusions drawn from discussions.	

Technology - Grade Six

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 4: Use technologies to organize thoughts in a logical process (e.g., voice, data, video, graphics).

MCF Benchmark: 3.MS.4

Analysis of Benchmark

Key Concepts
- It is important to organize thoughts in a logical process.

Evidence of Achievement
- Students will construct and print a Venn diagram.

Instructional Activities
- The teacher will discuss the properties of a Venn diagram.
- The teacher will model how to complete a Venn diagram.
- Students will create a Venn diagram in a drawing program or a word processing program.

Curriculum Integration
ELA: MCF 8.MS.5 11.MS.2,3

MAT:MCF III.1.MS.1,2,3 III.2.MS.1,2,3,4,5

SCI:MCF I.1.MS.3,5 II.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,4

Resources
Appendix: Software List (Drawing, Word Processing)

Assessment

Title of Task: Venn Diagram	**Grade:** Six
Standard & Benchmark: TEC.3.MS.4	

Assessment Task

The student constructs a Venn diagram.

Scoring Guide Criteria

- Venn diagram

Beginning	Developing	**Achieving**	Exceeding
		Students create a Venn diagram comparing and contrasting two assigned items.	

Technology - Grade Seven

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 4: Use technologies to organize thoughts in a logical process (e.g., voice, data, video, graphics).

MCF Benchmark: 3.MS.4

Analysis of Benchmark

Key Concepts
- It is important to organize thoughts in a logical process.

Evidence of Achievement
- Students will construct and print an outline.

Instructional Activities
- The teacher will model organizing ideas in a logical process.
- Students will create an outline using a word processor.

Curriculum Integration
ELA:MCF 8.MS.5 11.MS.2,3

MAT:MCF III.1.MS.1,2,3 III.2.MS.1,2,3,4,5

SCI:MCF I.1.MS.3,5 II.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,4

Resources
Appendix: Software List (Word Processor)

Assessment

<table>
<tr><td colspan="2">Title of Task: Outline</td><td colspan="2">Grade: Seven</td></tr>
<tr><td colspan="4">Standard & Benchmark: TEC.3.MS.4</td></tr>
<tr><td colspan="4">Assessment Task

Students construct an outline.</td></tr>
<tr><td colspan="4">Scoring Guide Criteria

• Create</td></tr>
<tr><td>Beginning</td><td>Developing</td><td>Achieving</td><td>Exceeding</td></tr>
<tr><td></td><td></td><td>Students create an outline on an assigned topic.</td><td></td></tr>
</table>

Technology - Grade Eight

Concept: Applying Appropriate Technologies

Standard 3: All students will apply appropriate technologies to critical thinking, creative expression, and decision making skills.

Benchmark 4: Use technologies to organize thoughts in a logical process (e.g., voice, data, video, graphics).

MCF Benchmark: 3.MS.4

Analysis of Benchmark

Key Concepts
- It is important to organize thoughts in a logical process.

Evidence of Achievement
- Students will construct and print a timeline.

Instructional Activities
- The teacher will model the how to create a timeline using a spreadsheet program.
- Students will research an assigned topic on the Internet and gather information that can be used in a timeline.
- Students will create a timeline in a spreadsheet program using their research.

Curriculum Integration
ELA:MCF 8.MS.5 11.MS.2,3

MAT:MCF III.1.MS.1,2,3 III.2.MS.1,2,3,4,5

SCI:MCF I.1.MS.3,5 II.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,4

Resources
Appendix: Grade Eight – Standard 3, Software List (Spreadsheet)

Assessment

Title of Task: Timeline	**Grade:** Eight
Standard & Benchmark: TEC.3.MS.4	

Assessment Task

Students construct a timeline.

Scoring Guide Criteria

- Research
- Spacing, legibility of timeline

Beginning	Developing	**Achieving**	Exceeding
		Students research using the internet an assigned topic and gather information for a timeline on that topic. Students create a timeline.	

Technology - Grade Six

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain, and improve products, systems, and environments.

Benchmark 1: Construct technological systems that exhibit continuous improvement.

MCF Benchmark: 4.MS.1

Analysis of Benchmark

Key Concepts
- The nature of technology is flexible and changing.

Evidence of Achievement
- Students will design and display a collage.

Instructional Activities
- The teacher will discuss the basic elements of a technology collage.
- The teacher will provide samples or examples of a complete project.
- Students will create a collage showing the evolution of technology (e.g., computers, memory devices, household items, software, electronic games).

Curriculum Integration
ART:MCF IV.1.MS.1,3,4

MAT:MCF III.1.MS.1,2

SCI:MCF II.1.MS.3,4

SOC:MCF V.1.MS.1,2

Resources
Appendix: Grade Six – Standard 4

Assessment

Title of Task: History of Technology	**Grade:** Six
Standard & Benchmark: TEC.4.MS.1	

Assessment Task

Students create a collage.

Scoring Guide Criteria

- Collage
- Evolution of technology

Beginning	Developing	**Achieving**	Exceeding
		Students create a collage showing the evolution of technology (e.g., computers, memory devices, household items, software, electronic games).	

Technology - Grade Seven

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 1: Construct technological systems that exhibit continuous improvement.

MCF Benchmark: 4.MS.1

Analysis of Benchmark

Key Concepts
- The nature of technology is flexible and changing.

Evidence of Achievement
- Students will design and display a collage.

Instructional Activities
- The teacher will discuss the basic elements of a technology collage.
- The teacher will provide samples or examples of a complete project.
- Students will create a collage showing the evolution of technology (e.g., computers, memory devices, household items, software, electronic games).

Curriculum Integration
ART:MCF IV.1.MS.1,3,4

MAT:MCF III.1.MS.1,2

SCI:MCF II.1.MS.3,4

SOC:MCF V.1.MS.1,2

Resources
Appendix: Grade Seven – Standard 4

Assessment
See TEC.4.MS.1 (Grade Six)

Technology - Grade Eight

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 1: Construct technological systems that exhibit continuous improvement.

MCF Benchmark: 4.MS.1

Analysis of Benchmark

Key Concepts
- The nature of technology is flexible and changing.

Evidence of Achievement
- Students will complete a multimedia presentation.

Instructional Activities
- The teacher will discuss the evolution of technology.
- The teacher will model the requirements for a multimedia presentation.
- Students will create a multimedia presentation showing the evolution of one aspect of technology (e.g., computers, digital cameras, memory devices, household items, camcorders, software, electronic games).

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6

MAT:MCF III.1.MS.1,2

SCI:MCF II.1.MS.3,4

SOC:MCF V.1.MS.1,2

Resources
Appendix: Grade Eight – Standard 4

Assessment

Title of Task: History of Technology	**Grade:** Eight
Standard & Benchmark: TEC.4.MS.1	

Assessment Task

Students create a multimedia presentation.

Scoring Guide Criteria

- Research
- Multimedia presentation

Beginning	Developing	**Achieving**	Exceeding
		Students use the Internet to research one aspect of technology. Students create a multimedia presentation showing the evolution of one aspect of technology (e.g., computers, digital cameras, memory devices, household items, software, camcorder, electronic games).	

Technology - Grade Six

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain, and improve products, systems, and environments.

Benchmark 2: Present technological solutions using scale and proportion in multiview sketches and drawings.

MCF Benchmark: 4.MS.2

Analysis of Benchmark

Key Concepts
- Software packages and online resources create muitiview sketches and drawings to scale.

Evidence of Achievement
- Students will locate the resources that create multiview sketches and drawings to scale.

Instructional Activities
- The teacher will discuss various software packages or online resources.
- Students will review online resources.
- Students will use a software package to create drawings to scale.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,3 IV.4.MS.2

MAT:MCF II.1.MS.2,4,5 II.2.MS.5 II.3.MS.1,2,3,6

SCI:MCF I.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,3,4

Resources
Appendix: Grade Six – Standard 4, Software List (Home Design)

Assessment

<table>
<tr><td colspan="2">Title of Task: Multi - View Sketches</td><td colspan="2">Grade: Six</td></tr>
<tr><td colspan="4">Standard & Benchmark: TEC.4.MS.2</td></tr>
<tr><td colspan="4">Assessment Task

Students participate in class discussion and draw conclusions.</td></tr>
<tr><td colspan="4">Scoring Guide Criteria

• Teacher observations</td></tr>
<tr><td>Beginning</td><td>Developing</td><td>Achieving</td><td>Exceeding</td></tr>
<tr><td></td><td></td><td>The teacher discusses various software packages or online resources.</td><td></td></tr>
</table>

Technology - Grade Seven

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 2: Present technological solutions using scale and proportion in multiview sketches and drawings.

MCF Benchmark:4.MS.2

Analysis of Benchmark

Key Concepts
- Software packages and online resources create multiview sketches and drawings to scale.

Evidence of Achievement
- Students will locate the resources that create multiview sketches and drawings to scale.

Instructional Activities
- The teacher will discuss various software packages or online resources.
- Students will review online resources.
- Students will use a software package to create drawings to scale.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,3 IV.4.MS.2

MAT:MCF II.1.MS.2,4,5 II.2.MS.5 II.3.MS.1,2,3,6

SCI:MCF I.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,3,4

Resources
Appendix: Grade Seven – Standard 4, Software List (Design)

Assessment
See TEC.4.MS.2 (Grade Six)

Technology - Grade Eight

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 2: Present technological solutions using scale and proportion in multiview sketches and drawings.

MCF Benchmark: 4.MS.2

Analysis of Benchmark

Key Concepts
- Software packages and on-line resources create multiview sketches and drawings to scale.

Evidence of Achievement
- Students will locate on-line resources that create multiview sketches and drawings to scale.

Instructional Activities
- The teacher will discuss various software packages or on-line resources.
- Students will review online resources.
- Students will use a software package to create drawings to scale.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,3 IV.4.MS.2

MAT:MCF II.1.MS.2,4,5 II.2.MS.5 II.3.MS.1,2,3,6

SCI:MCF I.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,3,4

Resources
Appendix: Grade Eight – Standard 4, Software List (Design)

Assessment
See TEC.4.MS.2 (Grade Six)

Technology - Grade Six

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 3: Use correct measurements of dimensions and capacity, industrial tools, materials, equipment, or processes to produce prototypes and technological solutions to problems.

MCF Benchmark: 4.MS.3,4,5,8

Analysis of Benchmark

Key Concepts
- Technology systems can improve the quality of life.
- Measurements of dimension and capacity determine functionality.
- Different solutions can solve similar problems.

Evidence of Achievement
- Students will construct and display the prototype design.
- Students will complete a self-assessment rubric.

Instructional Activities
- Students will measure a room and draw to scale.
- Students will redesign the room to accomodate a technological system to improve the quality of life in drawing program.
- Teacher and students discuss similar solutions.

Curriculum Integration
ART:MCF IV.4.MS.2

MAT:MCF II.1.MS.2,4,5 II.2.MS.5 II.3.MS.1,2,3,6

SCI:MCF I.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,3,4

Resources
Appendix: Software List (Drawing), Self-assessment Rubric

Assessment

Title of Task: Create a Room	**Grade:** Six
Standard & Benchmark: TEC.4.MS.3	
Assessment Task Students redesign a room.	
Scoring Guide Criteria • Redesign	

Beginning	Developing	**Achieving**	Exceeding
		Students measure a room and draw to scale and redesign the room to accomodate a technological system to improve the quality of life in drawing program.	

Technology - Grade Seven

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 3: Use correct measurements of dimension and capacity, industrial tools, materials, equipment, and processes to produce prototypes and technological solutions to problems.

MCF Benchmark: 4.MS.3,4,5,8

Analysis of Benchmark

Key Concepts
- Technology systems can improve the quality of life.
- Measurement of dimension and capacity determine function.
- Different solutions can solve similar problems.

Evidence of Achievement
- Students will construct and display a protype design.
- Students will complete a self-assessment rubic.

Instructional Activities
- Students will measure and draw a room to scale.
- Students will redesign a room to accommodate a technology system to improve the quality of life in a drawing program.
- Small groups compare and contrast different solutions.

Curriculum Integration
ART: MCF IV.4.MS.2

MAT:MCF II.1.MS.2,4,5 II.2.MS.5 II.3.MS.1,2,3,6

SCI:MCF I.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,3,4

Resources
Appendix: Software List (Drawing), Self-assessment Rubric

Assessment
See TEC.4.MS.3 (Grade Six)

Technology - Grade Eight

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 3: Use correct measurements of dimension and capacity, industrial tools, materials, equipment, and processes to produce prototypes and technological solutions to problems.

MCF Benchmark: 4.MS.3,4,5,8

Analysis of Benchmark

Key Concepts
- Technology systems can improve the quality of life.
- Measurements of dimension and capacity determine functionality.
- Different solutions can solve simlar problems.

Evidence of Achievement
- Students will construct and display a prototype design.
- Students will complete a self-assessment rubric.

Instructional Activities
- The teacher will demonstrate how to draw a room to scale.
- Students will measure and draw a room to scale.
- Students will redesign a room to accommodate a technological system to improve the quality of life in a drawing program.
- Within a small group, students will compare and contrast the different possible prototype solutions.
- Students will present a group concensus on one prototype.

Curriculum Integration
ART:MCF IV.4.MS.2

MAT:MCF II.1.MS.2,4,5 II.2.MS.5 II.3.MS.1,2,3,6

SCI:MCF I.1.MS.3

SOC:MCF V.1.MS.2 V.2.MS.2,3,4

Resources
Appendix: Software List (Drawing), Self-assessment Rubric

Assessment
See TEC.4.MS.3 (Grade Six)

Technology - Grade Six

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain, and improve products, systems, and environments.

Benchmark 4: Forecast potential hazards, establish guidelines for safe behavior, and demonstrate the understanding for common safety practices in a technological environment.

MCF Benchmark: 4.MS.6

Analysis of Benchmark

Key Concepts
- Safety guidelines are essential.
- Internet safety is crucial.

Evidence of Achievement
- Students will pass safety quiz.

Instructional Activities
- Teacher and student will review and reinforce safety guidelines in a technological environment.
- Teacher and students will discuss Internet safety.
- Students will practice Internet safety policies and procedures.

Curriculum Integration
SCI:MCF I.1.MS.1,2,5

Resources
Appendix: Grade Six – Standard 4

Assessment

Title of Task: Internet Safety	**Grade:** Six
Standard & Benchmark: TEC.4.MS.4	

Assessment Task

Students pass Internet safety quiz.

Scoring Guide Criteria

- Quiz scores

Beginning	Developing	**Achieving**	Exceeding
		Students pass an Internet safety quiz with a score of 90%.	

Technology - Grade Seven

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 4: Forecast potential hazards, establish guidelines for safe behavior, and demonstrate the understanding for common safety practices in a technology environment.

MCF Benchmark: 4.MS.6

Analysis of Benchmark

Key Concepts
- Safety guidelines are essential.
- Internet safety is crucial.

Evidence of Achievement
- Students will pass safety quiz.

Instructional Activities
- The teacher and students will review and reinforce safety guides in a technological environment.
- The teacher and students will discuss Internet safety.
- Students will take and pass an internet safety quiz.

Curriculum Integration:
SCI:MCF: I.1.MS.1,2,5

Resources
Appendix: Grade Seven – Standard 4

Assessment
See TEC.4.MS.4 (Grade Six)

Technology - Grade Eight

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain, and improve products, systems, and environments.

Benchmark 4: Forecast potential hazards, establish guidelines for safe behavior, and demonstrate the understanding for common safety practices in a technological environment.

MCF Benchmark: 4.MS.6

Analysis of Benchmark

Key Concepts
- Safety guidelines are essential.
- Internet safety is crucial.

Evidence of Achievement
- Students will pass a safety quiz.

Instructional Activities
- Teacher and students will review and reinforce safety guidelines in a technological environment.
- Teacher and students will discuss Internet safety.
- The students will take and pass a safety quiz.

Curriculum Integration
SCI:MCF I.1.MS.1,2,5

Resources
Appendix: Grade Eight – Standard 4

Assessment
See TEC.4.MS.4 (Grade Six)

Technology - Grade Six

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 5: Compare and contrast different resources and processes to evaluate technological solutions to a problem.

MCF Benchmark: 4.MS.7,9

Analysis of Benchmark

Key Concepts
- Data obtained through technology can be used to help solve societal problems.
- Technology can be used to evaluate resources and processes.
- Different media resources can provide various results.

Evidence of Achievement
- Students will present solutions in an oral presentation.

Instructional Activities
- Teacher and students will brainstorm a societal problem.
- Students will research different solutions to the problem.
- Students will compare and contrast to choose the best solution.
- Students will create a list of possible solutions.
- Students will orally present the best solution.

Curriculum Integration
ELA: MCF 1.MS.5 4.MS.5

SCI:MCF II.1.MS.1,3,4

SOC:MCF V.1.MS.1 V.2.MS.1,2,3,4

Resources
Appendix: Software List (Word Processing), Library

Assessment

Title of Task: Technological Solutions	**Grade:** Six
Standard & Benchmark: TEC.4.MS.5	

Assessment Task

Students present solutions in an oral discussion.

Scoring Guide Criteria

- Research
- List
- Oral presentation

Beginning	Developing	**Achieving**	Exceeding
		Students research different solutions to the problem. Students create a list of possible solutions. Students orally present the best solution.	

Technology – Grade Seven

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 5: Compare and contrast different resources and processes to evaluate technological solutions to a problem.

MCF Benchmark: 4.MS.7,9

Analysis of Benchmark

Key Concepts
- Data obtained through technology can be used to help solve societal problems.
- Technology can be used to evaluate different resources and processes.
- Different media resources can provide various results.

Evidence of Achievement
- Students will present findings in report form.

Instructional Activities
- The teacher and students will brainstorm a societal problem.
- Students will research different solutions to the problem.
- Students will compare and contrast the solutions to choose the best solution.
- Students will create a report that describes the best technological solution using a word processing program.

Curriculum Integration
ELA: MCF 1.MS.5 4.MS.5

SCI:MCF II.1.MS.1,3,4

SOC:MCF V.1.MS.1 V.2.MS.1,2,3,4

Resources
Appendix: Software List (Word Processing), Library

Assessment

Title of Task: Technological Solutions	**Grade:** Seven
Standard & Benchmark: TEC.4.MS.5	

Assessment Task

Students present solutions in a report form.

Scoring Guide Criteria

- Research
- Written report

Beginning	Developing	**Achieving**	Exceeding
		Students research different solutions to the problem. Students create a report that describes the best technological solution using a word processing program.	

Technology - Grade Eight

Concept: Employing Systematic Approach

Standard 4: All students will employ a systematic approach to technological solutions by using resources and processes to create, maintain and improve products, systems, and environments.

Benchmark 5: Compare and contrast different resources and processes to evaluate technological solutions to a problem.

MCF Benchmark: 4.MS.7,9

Analysis of Benchmark

Key Concepts
- Data obtained through technology can be used to help solve societal problems.
- Technology can be used to evaluate different resources and processes.
- Different media resources can provide various results.

Evidence of Achievement
- Students will present technological solutions to a problem in a research paper.

Instructional Activities
- Teacher and students will brainstorm a societal problem.
- Students will research different solutions to the problem using library, interent, CD's, etc.
- Students will compare and contrast to choose the best solution.
- Students will create a research paper that describes the best technological solution using a word processing program.

Curriculum Integration
ELA:MCF 1.MS.5 4.MS.5

SCI:MCF II.1.MS.1,3,4

SOC:MCF V.1.MS.1 V.2.MS.1,2,3,4

Resources
Appendix: Software List (Word Processor), Library

Assessment

Title of Task: Technological Solutions	**Grade:** Eight
Standard & Benchmark: TEC.4.MS.5	

Assessment Task

Students present solution in a research paper.

Scoring Guide Criteria

- Research
- Written paper

Beginning	Developing	**Achieving**	Exceeding
		Students research different solutions to the problem using library, internet, CD's. Students create a research paper that describes the best technological solution using a word processing program.	

Technology - Grade Six

Concept: Applying Standards

Standard 5: All students will apply ethical and legal standards in planning, using, and evaluating technology.

Benchmark 1: Hypothesize about legal and ethical factors in the design and development of a new product (i.e., patents, copyright).

MCF Benchmark: 5.MS.1

Analysis of Benchmark

Key Concepts
- New products sometimes have patents and/or copyrights.
- Legal and ethical factors should be considered in the development of a product.

Evidence of Achievement
- Students will participate in a classroom discussion.

Instructional Activities
- The teacher will provide examples of different types of products.
- Students will view advertisments of new products.
- Teacher and students will discuss the developmental steps of a new product.

Curriculum Integration
ART:MCF II.4.MS.4

ELA:MCF 12.MS.5

SCI:MCF I.1.MS.6

SOC:MCF VI.1.MS.1 VII.1.MS.1

Resources
Appendix: Grade Six – Standard 5

Assessment

<table>
<tr><td colspan="2">Title of Task: Patents and Copyrights</td><td colspan="2">Grade: Six</td></tr>
<tr><td colspan="4">Standard & Benchmark: TEC.5.MS.1</td></tr>
<tr><td colspan="4">Assessment Task

Students discuss the steps of a new product.</td></tr>
<tr><td colspan="4">Scoring Guide Criteria

• Classroom discussion</td></tr>
<tr><td>Beginning</td><td>Developing</td><td>Achieving</td><td>Exceeding</td></tr>
<tr><td></td><td></td><td>Teacher and students will discuss the developmental steps of a new product.</td><td></td></tr>
</table>

Technology - Grade Seven

Concept: Applying Standards

Standard 5: All students will apply ethical and legal standards in planning, using, and evaluating technology.

Benchmark 1: Hypothesize about legal and ethical factors in the design and development of a new product (patents and copyright).

MCF Benchmark: 5.MS.1

Analysis of Benchmark

Key Concepts
- New products sometimes have patents and/or copyrights.
- Legal and ethical factors should be considered in the development of a product.

Evidence of Achievement
- Students will participate in a classroom discussion.
- Students will participate in a group activity to create group outline on board.

Instructional Activities
- Students will view advertisements of new products.
- The teacher and students will discuss the developmental steps of a new product.
- The students will outline the steps in the development of a new product.

Curriculum Integration
ART:MCF II.4.MS.4

ELA:MCF 12.MS.5

SCI: MCF I.1.MS.6

SOC:MCF VI.1.MS.1 VII.1.MS.1

Resources
Appendix: Grade Seven – Standard 5

Assessment

Title of Task: Patents and Copyrights	**Grade:** Seven
Standard & Benchmark: TEC.5.MS.1	
Assessment Task Students create an outline.	
Scoring Guide Criteria • Outline	

Beginning	Developing	**Achieving**	Exceeding
		The students outline the steps in the development of a new product.	

Technology - Grade Eight

Concept: Applying Standards

Standard 5: All students will apply ethical and legal standards in planning, using, and evaluating technology.

Benchmark 1: Hypothesize about legal and ethical factors in the design and development of a new product (i.e., patents and copyright).

MCF Benchmark: 5.MS.1

Analysis of Benchmark

Key Concepts
- New products sometimes have patents and/or copyrights.
- Legal and ethical factors should be considered in the development of a product.

Evidence of Achievement
- Students will participate in a classroom discussion.
- Students will complete a web page.

Instructional Activities
- The teacher will show sample advertisements of new products.
- Students will view advertisments of new products.
- Teacher and students will discuss the developmental steps of a new product.
- Students will create a web page of a new product.

Curriculum Integration
ART:MCF II.4.MS.4

ELA:MCF 12.MS.5

SCI:MCF I.1.MS.6

SOC:MCF VI.1.MS.1 VII.1.MS.1

Resources
Appendix: Grade Eight – Standard 5, Software List (Web Design)

Assessment

Title of Task: Patents and Copyrights	**Grade:** Eight
Standard & Benchmark: TEC.5.MS.1	
Assessment Task Students complete a web page.	
Scoring Guide Criteria • Web page	

Beginning	Developing	**Achieving**	Exceeding
		Students create a web page of a new product.	

Technology - Grade Six

Concept: Applying Standards

Standard 5: All students will apply ethical and legal standards in planning, using, and evaluating technology.

Benchmark 2: Provide and practice examples of situations where the use of technology might be affected by legal, ethical, laws of privacy, and ownership standards as related to technology.

MCF Benchmark: 5.MS.2,3,4

Analysis of Benchmark

Key Concepts
- Laws apply to technology.
- Ethical issues apply to technology.
- Websites have ownership.

Evidence of Achievement
- Students will complete a web hunt.

Instructional Activities
- Teacher and students will discuss the laws relating to ethical technology practices.
- The teacher will discuss the web hunt process with students.
- Students will complete a teacher created Internet web hunt or create their own Internet web hunt.

Curriculum Integration
ART:MCF II.4.MS.4

ELA:MCF 12.MS.5

SCI:MCF I.1.MS.6

SOC:MCF VI.1.MS.1 VII.1.MS.1

Resources
Appendix: Grade Six – Standard 5

Assessment

<table>
<tr><td colspan="2">Title of Task: Internet Ownership</td><td colspan="2">Grade: Six</td></tr>
<tr><td colspan="4">Standard & Benchmark: TEC.5.MS.2</td></tr>
<tr><td colspan="4">Assessment Task

Students complete a web hunt.</td></tr>
<tr><td colspan="4">Scoring Guide Criteria

• Web hunt</td></tr>
<tr><td>Beginning</td><td>Developing</td><td>Achieving</td><td>Exceeding</td></tr>
<tr><td></td><td></td><td>Students complete a web hunt using search engines and links.</td><td></td></tr>
</table>

Technology – Grade Seven

Concept: Applying Standards

Standard 5: All students will apply ethical and legal standards in planning, using, and evaluating technology.

Benchmark 2: Provide and practice examples of situations where the use of technology might be affected by legal, ethical, laws of privacy, and ownership standards as related to technology.

MCF Benchmark: 5.MS.2,3,4

Analysis of Benchmark

Key Concepts
- Laws apply to technology.
- Ethical issues apply to technology.
- Websites have ownership.

Evidence of Achievement
- Students will complete a web hunt.

Instructional Activities
- Teacher and students will discuss the laws relating to ethical technology practices.
- Students will complete a teacher created Internet web hunt or students will create their own Internet web hunt.

Curriculum Integration
ART:MCF II.4.MS.4

ELA:MCF 12.MS.5

SCI:MCF I.1.MS.6

SOC:MCF VI.1.MS.1 VII.1.MS.1

Resources
Appendix: Grade Seven – Standard 5

Assessment
See TEC.5.MS.2 (Grade Six)

Technology - Grade Eight

Concept: Applying Standards

Standard 5: All students will apply ethical and legal standards in planning, using, and evaluating technology.

Benchmark 2: Provide and practice examples of situations where the use of technology might be affected by legal, ethical, laws of privacy, and ownership standards as related to technology.

MCF Benchmark: 5.MS.2,3,4

Analysis of Benchmark

Key Concepts
- Laws apply to technology.
- Ethical issues apply to technology.
- Websites have ownership.

Evidence of Achievement
- Students will complete a web hunt.

Instructional Activities
- Teacher and students will discuss the laws relating to ethical technology practices.
- Students will complete a teacher created Internet web hunt, or students will create their own Internet web hunt.

Curriculum Integration
ART:MCF II.4.MS.4

ELA:MCF 12.MS.5

SCI:MCF I.1.MS.6

SOC:MCF VI.1.MS.1 VII.1.MS.1

Resources
Appendix: Grade Eight – Standard 5

Assessment
See TEC.5.MS.2 (Grade Six)

Technology - Grade Six

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 1: Investigate and anaylze the present and future development of technology careers and occupations.

MCF Benchmark: 6.MS.1,2

Analysis of Benchmark

Key Concepts
- Careers in technology are growing.
- Technology careers are constantly changing.
- Technology is a global occupation.

Evidence of Achievement
- Students will participate in an oral presentation.

Instructional Activities
- The teacher will discuss possible careers in technology.
- Students will choose a technology occupation from a teacher created list.
- Students will research a specific occupation using the internet and present to class.

Curriculum Integration
ELA: MCF 1.MS.5 3.MS.1,7

SOC:MCF V.1.MS.2,3

Resources
Teacher created list of technology occupations

Assessment

Title of Task: Technology Careers	**Grade:** Six
Standard & Benchmark: TEC.6.MS.1	
Assessment Task Students orally present a chosen career.	
Scoring Guide Criteria • Oral presentation	

Beginning	Developing	**Achieving**	Exceeding
		Students research a specific occupation using the internet and present to class.	

Technology - Grade Seven

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 1: Investigate and analyze the present and future development of technology careers and occupations.

MCF Benchmark: 6.MS.1,2

Analysis of Benchmark

Key Concepts
- Careers in technology are growing.
- Technology careers are constantly changing.
- Technology is a global occupation.

Evidence of Achievement
- Students will complete a multimedia presentation.

Instructional Activities
- The teacher and students brainstorm technology occupations.
- The teacher and students will discuss technology career growth for the future.
- The teacher and students discuss the global impact of the occupations.
- The students will research a specific occupation.
- Students will create a multimedia presentation.

Curriculum Integration
ART:MCF: IV.1.MS.1,3,4 IV.2.MS.1,2,6 IV.5.MS.2

ELA:MCF 1.MS.5 3.MS.1,7

SOC:MCF V.1.MS.2,3

Resources
Appendix: Software List (Multimedia), Internet

Assessment

Title of Task: Technology Careers	**Grade:** Seven
Standard & Benchmark: TEC.6.MS.1	

Assessment Task

Students create a multimedia presentation.

Scoring Guide Criteria

- Multimedia presentation

Beginning	Developing	**Achieving**	Exceeding
		Students research a specific occupation and complete a multimedia presentation.	

Technology - Grade Eight

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 1: Investigate and analyze the present and future development of technology careers and occupations.

MCF Benchmark: 6.MS.1,2

Analysis of Benchmark

Key Concepts
- Careers and technology are growing.
- Technology careers are constantly changing.
- Technology is a global occupation.

Evidence of Achievement
- Students will complete a multimedia presentation.

Instructional Activities
- The teacher will discuss and display examples of careers associated with technology.
- Students will use an on-line career pathways website to investigate a teacher assigned technology career.
- Students will identify the technology career description, market outlook, duties, and salary range.
- Students will critique the market outlook, duties, and salary range according to your personal standards.
- Students will create a multimedia presentation about the assigned technology career.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6 IV.5.MS.2

ELA:MCF 1.MS.5 3.MS.1,7

SOC:MCF V.1.MS.2,3

Resources
Appendix: Software List (Multimedia)

Assessment

Title of Task: Technology Careers		**Grade:** Eight	
Standard & Benchmark: TEC.6.MS.1			
Assessment Task Students create a multimedia presentation.			
Scoring Guide Criteria • Multimedia presentation			
Beginning	Developing	**Achieving**	Exceeding
		Students research an assigned career and complete a multimedia presentation.	

Technology - Grade Six

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology, and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 2: Identify, compare, and contrast how technology impacts self, groups, communities, and cultures now and in the future.

MCF Benchmark: 6.MS.3,4

Analysis of Benchmark

Key Concepts
- Technology impacts one's self.
- Technology impacts groups of people.
- Technology impacts communities and cultures.
- Technology will change in the future.

Evidence of Achievement
- Students will participate in a classroom discussion.

Instructional Activities
- Teacher and students will discuss how technology affects their life and community.
- Students will list the ways that technology impacts their life.

Curriculum Integration
ELA:MCF 3.MS.8. 9.MS.1 10.MS.1,3 11.MS.1,3

SCI:MCF II.1.MS.3,4,6

SOC:MCF V.1.MS.1,2,3

Resources
Appendix: Standard Classroom List

Assessment

Title of Task: Technology and Self	**Grade:** Six
Standard & Benchmark: TEC.6.MS.2	

Assessment Task

Students discuss how technology affects their life and community.

Scoring Guide Criteria

- Classroom discussion

Beginning	Developing	**Achieving**	Exceeding
		Students discuss how technology affects their life and community.	

Technology - Grade Seven

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology, and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 2: Identify, compare, and contrast how technology impacts self, group, communities, and cultures now and in the future.

MCF Benchmark: 6.MS.3,4

Analysis of Benchmark

Key Concepts
- Technolgy impacts one's self.
- Technology impact groups of people.
- Technology impacts communities and cultures.
- Technology will change in the future.

Evidence of Achievement
- Students will participate in a classroom discussion.

Instructional Activities
- The teacher and students will discuss how technology affects their life and other cultures.
- The teacher and students will brainstorm possible technology changes for the future.

Curriculum Integration
ELA: MCF 3.MS.8 9.MS.1 10.MS.1,3 11.MS.1,3

SCI:MCF II.1.MS.3,4,6

SOC:MCF V.1.MS.1,2,3

Resources
Appendix: Standard Classroom List

Assessment
See TEC.6.MS.2 (Grade Six)

Technology - Grade Eight

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 2: Identify, compare, and contrast how technology impacts one's self, group, community, and culture now and in the future.

MCF Benchmark: 6.MS.3,4

Analysis of Benchmark

Key Concepts
- Technology impacts one's self.
- Technology impacts groups of people.
- Technology impacts communities and cultures.
- Technology will change in the future.

Evidence of Achievement
- Students will create a concept map on the changes and effects of technology.

Instructional Activities
- The teacher will discuss changes in technology over time.
- Students will analyze a historical technology timeline presented by the teacher.
- Students will identify how technology has changed and how those changes have impacted our lives.
- Students will explain how these changes affected our country.
- Students will explain how these changes affected other countries and cultures.
- Students will create a concept map of all changes and effects researched.

Curriculum Integration
ELA:MCF 3.MS.8 9.MS.1 10.MS.1,3 11.MS.1,3

SCI:MCF II.1.MS.3,4,6

SOC:MCF V.1.MS.1,2,3

Resources
Appendix: Software List (Drawing), Technology Timeline

Assessment

Title of Task: Technology and Self	**Grade:** Eight
Standard & Benchmark: TEC.6.MS.2	

Assessment Task

Students create a concept map.

Scoring Guide Criteria

- Number/quality of connections
- Changes/effects

Beginning	Developing	**Achieving**	Exceeding
		Students create a concept map of all changes and effects researched.	

Technology - Grade Six

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 3: Illustrate and provide examples of the social, environmental, civic, and economic consequences of technology and propose technological solutions. Classify the proposed technological solutions into safe and unsafe categories.

MCF Benchmark: 6.MS.6.5,6,7

Analysis of Benchmark

Key Concepts
- Technology provides both positive and negative consequences.
- Technology allows for exploration of social and civic issues.
- Technology allows for exploration of environmental and economic issues.
- Safe and unsafe technological solutions have direct effects on social, environmental, civic, and economic issues.

Evidence of Achievement
- Students will participate in a classroom discussion.

Instructional Activities
- Teacher and students will discuss the examples of the social, environmental, civic, and economic consequences of technology and propose technogical solutions.
- Students will orally classify solutions into safe and unsafe consequences.

Curriculum Integration
ART:MCF IV.1.MS.3 IV.2.MS.1

ELA:MCF 3.MS.1,2,3,8 8.MS. 9.MS.1

SCI:MCF I.1.MS.1 II.1.MS.4,6

SOC:MCF IV.1.MS.1,2,3

Resources
Appendix: Standard Classroom List

Assessment

Title of Task: Safe and Unsafe Consequences	**Grade:** Six
Standard & Benchmark: TEC.6.MS.3	

Assessment Task

Students orally classify solutions into safe and unsafe consequences.

Scoring Guide Criteria

- Oral discussion

Beginning	Developing	**Achieving**	Exceeding
		Students orally classify solutions into safe and unsafe consequences.	

Technology - Grade Seven

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 3: Illustrate and provide examples of the social, environmental, civic, and economic consequences of technology and propose technological solutions. Classify the proposed technological solutions into safe and unsafe catogories.

MCF Benchmark: 6.MS.5,6,7

Analysis of Benchmark

Key Concepts
- Technology proves both positive and negative consequences.
- Technology allows for exploration of social and civic issues.
- Technology allows for exploration of environmental and economic issues.
- Unsafe technological solutions have direct effects on social, environmental, civic, and economic issues.

Evidence of Achievement
- Students will graphically organize possible solutions on the board.
- Students will classify on the board safe and unsafe consequences.

Instructional Activities
- Teacher and students will discuss examples of the social, environmental, civic, and economic consequences of technology, and propose technological solutions.
- Teacher and students will brainstorm possible solutions.
- Students will make a list classifying solutions into safe and unsafe consequences.

Curriculum Integration
ART:MCF IV.1.MS.3 IV.2.MS.1

ELA:MCF 3.MS.1,2,3,8 8.MS.4 9.MS.1

SCI: MCF I.1.MS.1 II.1.MS.4,6

SOC:MCF I.1.MS.1,2,3

Resources
Appendix: Software List (Concept Mapping)

Assessment

Title of Task: Safe and Unsafe Consequences	**Grade:** Seven
Standard & Benchmark: TEC.6.MS.3	
Assessment Task Students create a list.	
Scoring Guide Criteria • List	

Beginning	Developing	**Achieving**	Exceeding
		Students make a list and classify solutions into safe and unsafe consequences.	

Technology - Grade Eight

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 3: Illustrate and provide examples of the social, environmental, civic, and economic consequences of technology and propose technological solutions. Classify the proposed technological solutions into safe and unsafe catogories.

MCF Benchmark: 6.MS.5,6,7

Analysis of Benchmark

Key Concepts
- Technology proves both positive and negative consequences.
- Technology allows for exploration of social and civic issues.
- Technology allows for exploration of environmental and ecomonic issues.
- Safe and unsafe technological solutions have direct effects on social, environmental, civic, and economic issues.

Evidence of Achievement
- Students will complete a list of the top five technological solutions in a word processing document and select the top solution.

Instructional Activities
- Teacher and students will discuss examples of the social, environmental, civic, and economic consequences of technology and propose technological solutions.
- Teacher and students will brainstorm possible solutions.
- Students will classify solutions into safe and unsafe consequences.
- In a cooperative group, students will list the five top solutions.
- Students will come to a consenses of a top solution.

Curriculum Integration
ART:MCF IV.1.MS.3 IV.2.MS.1

ELA:MCF 3.MS.1,2,3,8 8.MS.4 9.MS.1

SCI:MCF I.1.MS.1 II.1.MS.4,6

SOC:MCF V.1.MS.1,2,3

Resources
Appendix: Software List (Word Processing)

Assessment

Title of Task: Safe and Unsafe Consequences	**Grade:** Eight
Standard & Benchmark: TEC.6.MS.3	

Assessment Task

Students create a list.

Scoring Guide Criteria

- Classification of consequences
- Prioritization

Beginning	Developing	**Achieving**	Exceeding
		Students classify solutions into safe and unsafe consequences. In a cooperative group, students will list the five top solution. Students will come to a consenses of a top solution.	

Technology - Grade Six

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 4: Identify and explain how environmental factors contribute to the development of technology and its impact on society.

MCF Benchmark: 6.MS.8

Analysis of Benchmark

Key Concepts
- Environmental factors contribute to the development of technology.
- Technology impacts society.

Evidence of Achievement
- Students will participate in a classroom discussion.
- Students will complete a classroom checklist.

Instructional Activities
- The teacher will brainstorm environmental factors with the class.
- Using a classroom checklist, students will orally categorize each environmental factor.

Curriculum Integration
SCI:MCF I.1.MS.1 II.1.MS.4,6

SOC:MCF II.1.MS.1 V.1.MS.1 V.2.MS.1,2,34

Resources
Appendix: Standard Classroom List

Assessment

Title of Task: Environmental Factors	**Grade:** Six
Standard & Benchmark: TEC.6.MS.4	
Assessment Task Students orally categorize each environmental factor**.**	
Scoring Guide Criteria • Checklist	

Beginning	Developing	**Achieving**	Exceeding
		Using a classroom checklist, students orally categorize each environmental factor.	

Technology - Grade Seven

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 4: Identify and explain how environmental factors contribute to the development of technology and their impacts on society.

MCF Benchmark: 6.MS.8

Analysis of Benchmark

Key Concepts
- Environmental factors contribute to the development of technology.
- Technology impacts society.

Evidence of Achievement
- Students will participate in a classroom discussion.
- Students will complete a graphic organizer.
- Students will complete an oral presentation.

Instructional Activities
- The teacher and student will brainstorm environmental factors.
- Students will categorize the environmental factor's effects on the development of technology.
- Students in small group discussion on an environment factor and on how it impacts society.
- Students will make an oral presentation of small group discussion results.

Curriculum Integration
SCI: MCF I.1.MS.1 II.1.MS.4,6

SOC: MCF II.1.MS.1 V.1.MS.1 V.2.MS.1,2,3,4

Resources
Appendix: Software List (Graphical Organizer)

Assessment

Title of Task: Environmental Factors	**Grade:** Seven
Standard & Benchmark: TEC.6.MS.4	
Assessment Task Students tally and present findings.	
Scoring Guide Criteria • Oral presentation	

Beginning	Developing	**Achieving**	Exceeding
		Students make an oral presentation of small group discussion results.	

Technology - Grade Eight

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 4: Identify and explain how environmental factors contribute to the development of technology and its impacts on society.

MCF Benchmark: 6.MS.8

Analysis of Benchmark

Key Concepts
- Environmental factors contribute to the development of technology.
- Technology impacts society.

Evidence of Achievement
- Students will participate in a classroom discussion.
- Students will complete a spreadsheet.
- Students will complete a summary.

Instructional Activities
- The teacher and students will brainstorm environmental factors.
- Students will categorize each environmental factor's effect on the development of technology.
- Students will list all the environmental factors and effects into a spreadsheet.
- Students will write a short paper summarizing the enviromental factors' impact on society from the data collected in the spreadsheet.

Curriculum Integration
ELA:MCF 1.MS.5 4.MS.5

SCI:MCF I.1.MS.1 II.1.MS.4,6

SOC:MCF II.1.MS.1 V.1.MS.1 V.2.MS.1,2,3,4

Resources
Appendix: Software List (Spreadsheet, Word Processing)

Assessment

Title of Task: Environmental Factors	**Grade:** Eight
Standard & Benchmark: TEC.6.MS.4	

Assessment Task

Students develop a spreadsheet and create a written summary.

Scoring Guide Criteria

- Spreadsheet
- Summary

Beginning	Developing	**Achieving**	Exceeding
		Students list all the environmental factors and effects into a spreadsheet. Each student will write a short paper summarizing the ways environmental factors impact society from the data collected on the spreadsheet.	

Technology - Grade Six

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 5: Recognize the historical impact on the development of technology in relationship to the production of tools, equipment, and products.

MCF Benchmark: 6.MS.9

Analysis of Benchmark

Key Concepts
- History impacts the development of technology.
- Each technology tool, equipment, and product has a historical timeline.

Evidence of Achievement
- Students will complete an oral discussion on the history of technology equipment.

Instructional Activities
- Teacher and students discuss the history of technology.
- Each student will create a timeline of historical events in technology.

Curriculum Integration
SCI:MCF II.1.MS.3,4

SOC:MCF I.2.MS.2,3

Resources
Appendix: Standard Classroom List

Assessment

Title of Task: Historical Impact	**Grade:** Six
Standard & Benchmark: TEC.6.MS.5	

Assessment Task

Students orally discuss the history of technology tools and products.

Scoring Guide Criteria

- Oral discussion

Beginning	Developing	**Achieving**	Exceeding
		Students orally discuss the history of technology tools and products.	

Technology - Grade Seven

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 5: Recognize the historical impact on the development of technology in relationship to the production of tools, equipment, and products.

MCF Benchmark: 6.MS.9

Analysis of Benchmark

Key Concepts
- History has an impact on the development of technology.
- Each technology tool, equipment, and product has a historical time line.

Evidence of Achievement
- Students will participate in an oral discussion.

Instructional Activities
- Teacher and students discuss the history of technology.
- Teacher will model web base time line.
- Teacher and student will choose a technology tool to research on a web based time line site.
- The group will discuss timeline events.

Curriculum Integration
SCI:MCF II.1.MS.3,4

SOC:MCF I.1.MS.2,3

Resources
Appendix: Grade Seven – Standard 6

Assessment
See TEC.6.MS.5 (Grade Six)

Technology - Grade Eight

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 5: Recognize the historical impact on the development of technology in relationship to the production of tools, equipment, and products.

MCF Benchmark: 6.MS.9

Analysis of Benchmark

Key Concepts
- History has an impact on the development of technology.
- Each technology tool, equipment, and product has a historical timeline.

Evidence of Achievement
- Students will complete a technology timeline.

Instructional Activities
- Teacher and students discuss the history of technology.
- Teacher and students will develop a history timeline of a technology tool, equipment, or product.
- Each student will select a tool, equipment, or product to timeline.
- Students will research their selected item and create a timeline in spreadsheet covering the ten historical events.

Curriculum Integration
SCI:MCF II.1.MS.3,4

SOC:MCF I.2.MS.2,3

Resources
Appendix: Grade Eight – Standard 6, Software List (Spreadsheet)

Assessment

Title of Task: Historical Impact	**Grade:** Eight
Standard & Benchmark: TEC.6.MS.5	
Assessment Task Students complete a timeline.	
Scoring Guide Criteria • Timeline rubric	

Beginning	Developing	**Achieving**	Exceeding
		Students research their selected item and create a time line in spreadsheet format covering the ten historical events.	

Technology - Grade Six

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 6: Research, present, and defend forecasts of consequences of new technological developments.

MCF Benchmark: 6.MS.10

Analysis of Benchmark

Key Concepts
- New technologies are continually being developed.
- Technology is constantly changing and being improved.
- Some technologies produce negative consequences.
- The Internet is a useful tool for research.

Evidence of Achievement
- Students will develop student-created drawings.

Instructional Activities
- Teacher discusses new technologies with the class.
- Students select one new technology to research.
- Students create a drawing of a new technological development.

Curriculum Integration
ART:MCF IV.4.MS.2

ELA:MCF 11.MS.1,2,3,4

MAT:MCF III.1.MS.1,2,3

SCI:MCF I.1.MS.1,2,3,5 II.1.MS.1,2,3,4

SOC:MCF V.1.MS.2

Resources
Appendix: Software List (Drawing)

Assessment

Title of Task: New Technology	**Grade:** Six
Standard & Benchmark: TEC.6.MS.6	

Assessment Task

Students create a drawing of a new technology development.

Scoring Guide Criteria

- Drawing

Beginning	Developing	**Achieving**	Exceeding
		Students create a drawing of a new technological development.	

Technology - Grade Seven

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 6: Research, present, and defend forecasts of consequences of new technological developments.

MCF Benchmark: 6.MS.10

Analysis of Benchmark

Key Concepts
- New technologies are continually being developed.
- Technology is constantly changing and being improved.
- Some technologies produce negative consequences.
- The internet is a useful tool for research.

Evidence of Achievement
- Students will complete a multimedia presentation.

Instructional Activities
- The teacher and students will brainstorm new technological developments.
- Students will select one new technological development.
- Students will research the new technological development using the internet.
- Students will create a multimedia presentation on the selected new technological development.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6

ELA: MCF 11.MS.1,2,3,4

MAT:MCF III.1.MS.1,2,3

SCI:MCF I.1.MS.1,2,3,5 II.1.MS.1,2,3,4

SOC:MCF V.1.MS.2

Resources
Appendix: Software List (Multimedia)

Assessment

Title of Task: New Technology	**Grade:** Seven
Standard & Benchmark: TEC.6.MS.6	

Assessment Task

Student complete a multimedia presentation.

Scoring Guide Criteria

- Multimedia presentation

Beginning	Developing	**Achieving**	Exceeding
		Students create a multimedia presentation on the selected new technology development.	

Technology - Grade Eight

Concept: Evaluating and Forecasting

Standard 6: All students will evaluate the societal and environmental impacts of technology and forecast alternative uses and possible consequences to make informed civic, social, and economic decisions.

Benchmark 6: Research, present, and defend forecasts of consequences of new technological developments.

MCF Benchmark: 6.MS.10

Analysis of Benchmark

Key Concepts
- New technologies are continually being developed.
- Technology is constantly changing and being improved.
- Some technologies produce negative consequences.
- The Interent is a useful tool for research.

Evidence of Achievement
- Students will complete a multimedia presentation.

Instructional Activities
- Teacher and students will brainstorm new technological developments.
- Students select one new technological development and research the new technological development using the Internet.
- Students will create a multimedia presentation on the selected development.
- Students will include forecasted consequences in the presentation.
- Students will defend the new technological development.
- Students will present their multimedia presentation to the class while the other students critique using a teacher created rubric.

Curriculum Integration
ART:MCF IV.1.MS.1,3,4 IV.2.MS.1,2,6

ELA:MCF 11.MS.1,2,3,4

MAT:MCF III.1.MS.1,2,3

SCI:MCF I.1.MS.1,2,3,5 II.1.MS.1,2,3,4

SOC:MCF V.1.MS.2

Resources
Appendix: Software List (Multimedia)

Assessment

Title of Task: New Technology	**Grade:** Eight
Standard & Benchmark: TEC.6.MS.6	

Assessment Task

Students complete a timeline.

Scoring Guide Criteria

- Research
- Multimedia presentation
- Critique of oral presentation

Beginning	Developing	**Achieving**	Exceeding
		Students research the new technological development using the internet. Students create a multimedia presentation on the selected development. Students include forecasted consequences in the presentation. Students defend the new technological development. Students present their multimedia presentation to the class while the other students critique using a teacher created rubric.	