

Bemidji Middle School Industrial Technology Outcomes – Revised 2010

Digital Multimedia (new title replacing Digital Video)

Grade 8

Standards	Benchmarks		Activities/Examples
<p>1. Students will develop an understanding of the characteristics and scope of technology.</p>	F	<p>New products and systems can be developed to solve problems or to help do things that could not be done without the help of technology.</p>	<p>A student shall use appropriate technology to access, evaluate, and organize information and to product products by:</p> <ul style="list-style-type: none"> a. Gathering and evaluating information from electronic sources* b. Applying appropriate technology processes to an identified need or problem c. Selecting language, format, and graphics appropriate for purpose and audience by using word processing, graphics, multimedia, spreadsheets, and/or databases d. Maintaining, using, or creating a technological system. <p>*These include, but are not limited to, images, sound files, animations, and scanned materials.</p>
	H	<p>Technology is closely linked to creativity, which has resulted in innovation.</p>	<p>Knows and uses the 6 elements of design when creating projects:</p> <ul style="list-style-type: none"> a. Line b. Shape c. Color d. Form e. Space
			<p>Create a 3D Design</p> <ul style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Google SketchUp” software c. Plan or design (storyboard) your idea d. Create a 3D Activities Room design following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur

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		<p>Create a Magazine Cover</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “Photoshop” software Plan or design (storyboard) your idea Create a Magazine Cover incorporating a photo of yourself following the parameters stated on the Communication Tech website Troubleshoot issues as they occur
		<p>Creates a Vide Slideshow Tour of BMS</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “iMovie & iPhoto” software Plan or design (storyboard) your idea Take photos of BMS necessary for your plan Create a Video Slideshow of BMS following the parameters stated on the Communication Tech website Troubleshoot issues as they occur
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<p>2. Students will develop an understanding of the core concepts of technology.</p>	<p>P</p>	<p>Technological systems can be connected to one another.</p>	<p>Create a 3D Design</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “Google SketchUp” software Plan or design (storyboard) your idea Create a 3D Activities Room design following the parameters stated on the Communication Tech website Troubleshoot issues as they occur
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	<p>Q Malfunctions of any part of a system may affect the function and quality of the system.</p>	<p>Create a 3D Design</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “Google SketchUp” software Plan or design (storyboard) your idea Create a 3D Activities Room design following the parameters stated on the Communication Tech website Troubleshoot issues as they occur <p>Create a Magazine Cover</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “Photoshop” software Plan or design (storyboard) your idea Create a Magazine Cover incorporating a photo of yourself following the parameters stated on the Communication Tech website Troubleshoot issues as they occur <p>Creates a Video Slideshow Tour of BMS</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “iMovie & iPhoto” software Plan or design (storyboard) your idea Take photos of BMS necessary for your plan Create a Video Slideshow of BMS following the parameters stated on the Communication Tech website Troubleshoot issues as they occur

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	<p>R Requirements are the parameters placed on the development of a product or system.</p>	<p>Create a 3D Design</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “Google SketchUp” software Plan or design (storyboard) your idea Create a 3D Activities Room design following the parameters stated on the Communication Tech website Troubleshoot issues as they occur
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<p>8. Students will develop an understanding of the attributes of design.</p>	E	<p>Design is a creative planning process that leads to useful products and systems.</p>	<p>Knows the steps involved with designing messages:</p> <ol style="list-style-type: none"> Identify your audience Know your content (message) Decide on the format
	F	<p>There is no perfect design.</p>	<p>Knows the steps involved with designing messages:</p> <ol style="list-style-type: none"> Identify your audience Know your content (message) Decide on the format

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	<p>G Requirements for design are made up of criteria and constraints.</p>	<p>Knows the steps involved with designing messages:</p> <ul style="list-style-type: none"> a. Identify your audience b. Know your content (message) c. Decide on the format <hr/> <p>Create a 3D Design</p> <ul style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Google SketchUp” software c. Plan or design (storyboard) your idea d. Create a 3D Activities Room design following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur <hr/> <p>Create a Magazine Cover</p> <ul style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Photoshop” software c. Plan or design (storyboard) your idea d. Create a Magazine Cover incorporating a photo of yourself following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur <hr/> <p>Creates a Vide Slideshow Tour of BMS</p> <ul style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “iMovie & iPhoto” software c. Plan or design (storyboard) your idea d. Take photos of BMS necessary for your plan e. Create a Video Slideshow of BMS following the parameters stated on the Communication Tech website f. Troubleshoot issues as they occur

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<p>9. Students will develop an understanding of engineering design.</p>	F	<p>Design involves a set of steps, which can be performed in different sequences and repeated as needed.</p>	<p>Uses design procedures which include:</p> <ol style="list-style-type: none"> a. Idea generation (brainstorming their interests) b. Concept map (logical, sequential order of their website) c. Storyboard (roadmap or drawing on paper of their website)
	G	<p>Brainstorming is a group problem-solving design process in which each person in the group presents his or her ideas in an open forum.</p>	<p>Uses design procedures which include:</p> <ol style="list-style-type: none"> a. Idea generation (brainstorming their interests) b. Concept map (logical, sequential order of their website) c. Storyboard (roadmap or drawing on paper of their website)

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<p>10. Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.</p>	<p>F</p>	<p>Troubleshooting is a problem-solving method used to identify the cause of a malfunction in a technological system.</p>	<p>Create a 3D Design</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “Google SketchUp” software Plan or design (storyboard) your idea Create a 3D Activities Room design following the parameters stated on the Communication Tech website Troubleshoot issues as they occur
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	<p>H Some technological problems are best solved through experimentation.</p>	<p>Create a 3D Design</p> <ol style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Google SketchUp” software c. Plan or design (storyboard) your idea d. Create a 3D Activities Room design following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur <p>Create a Magazine Cover</p> <ol style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Photoshop” software c. Plan or design (storyboard) your idea d. Create a Magazine Cover incorporating a photo of yourself following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur <p>Creates a Vide Slideshow Tour of BMS</p> <ol style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “iMovie & iPhoto” software c. Plan or design (storyboard) your idea d. Take photos of BMS necessary for your plan e. Create a Video Slideshow of BMS following the parameters stated on the Communication Tech website f. Troubleshoot issues as they occur

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<p>11. Students will develop the abilities to apply the design process.</p>	J	<p>Make two-dimensional and three-dimensional representations of the designed solution.</p>	<p>Uses design procedures which include:</p> <ol style="list-style-type: none"> Idea generation (brainstorming their interests) Concept map (logical, sequential order of their website) Storyboard (roadmap or drawing on paper of their website)
	H	<p>Apply a design process to solve problems in and beyond the laboratory-classroom.</p>	<p>Students will design and construct a model bridge using supplied materials, set specifications and material limitations.</p> <p>Projects will be stress-tested and efficiencies calculated using a mathematical formula.</p> <p>Create a 3D Design</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “Google SketchUp” software Plan or design (storyboard) your idea Create a 3D Activities Room design following the parameters stated on the Communication Tech website Troubleshoot issues as they occur

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	<p>I Specify criteria and constraints for the design.</p>	<p>Students will design and construct a model bridge using supplied materials, set specifications and material limitations.</p> <p>Projects will be stress-tested and efficiencies calculated using a mathematical formula.</p> <hr/> <p>Create a 3D Design</p> <ol style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Google SketchUp” software c. Plan or design (storyboard) your idea d. Create a 3D Activities Room design following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur <hr/> <p>Create a Magazine Cover</p> <ol style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Photoshop” software c. Plan or design (storyboard) your idea d. Create a Magazine Cover incorporating a photo of yourself following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur <hr/> <p>Creates a Vide Slideshow Tour of BMS</p> <ol style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “iMovie & iPhoto” software c. Plan or design (storyboard) your idea d. Take photos of BMS necessary for your plan e. Create a Video Slideshow of BMS following the parameters stated on the Communication Tech website f. Troubleshoot issues as they occur

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	<p>K Test and evaluate the design in relation to pre-established requirements, such as criteria and constraints, and refine as needed.</p>	<p>Uses design procedures which include:</p> <ol style="list-style-type: none"> Idea generation (brainstorming their interests) Concept map (logical, sequential order of their website) Storyboard (roadmap or drawing on paper of their website)
	<p>L Make a product or system and document the solution.</p>	<p>Students will design and construct a model bridge using supplied materials, set specifications and material limitations.</p> <p>Projects will be stress-tested and efficiencies calculated using a mathematical formula.</p> <p>Create a 3D Design</p> <ol style="list-style-type: none"> Complete the practice exercises on the Communication Tech website Understand the basics of “Google SketchUp” software Plan or design (storyboard) your idea Create a 3D Activities Room design following the parameters stated on the Communication Tech website Troubleshoot issues as they occur

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<p>12. Students will develop the abilities to use and maintain technological products and systems.</p>	H	<p>Use information provided in manuals, protocols, or by experienced people to see and understand how things work.</p>	<p>A student shall use appropriate technology to access, evaluate, and organize information and to product products by:</p> <ul style="list-style-type: none"> a. Gathering and evaluating information from electronic sources* b. Applying appropriate technology processes to an identified need or problem c. Selecting language, format, and graphics appropriate for purpose and audience by using word processing, graphics, multimedia, spreadsheets, and/or databases d. Maintaining, using, or creating a technological system <p>*These include, but are not limited to, images, sound files, animations, and scanned materials.</p>
	I	<p>Use tools, materials, and machines safely to diagnose, adjust, and repair systems.</p>	<p>A student shall use appropriate technology to access, evaluate, and organize information and to product products by:</p> <ul style="list-style-type: none"> a. Gathering and evaluating information from electronic sources* b. Applying appropriate technology processes to an identified need or problem c. Selecting language, format, and graphics appropriate for purpose and audience by using word processing, graphics, multimedia, spreadsheets, and/or databases d. Maintaining, using, or creating a technological system <p>*These include, but are not limited to, images, sound files, animations, and scanned materials.</p>

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	<p>J Use computers and calculators in various applications.</p>	<p>A student shall use appropriate technology to access, evaluate, and organize information and to product products by:</p> <ul style="list-style-type: none"> a. Gathering and evaluating information from electronic sources* b. Applying appropriate technology processes to an identified need or problem c. Selecting language, format, and graphics appropriate for purpose and audience by using word processing, graphics, multimedia, spreadsheets, and/or databases d. Maintaining, using, or creating a technological system <p>*These include, but are not limited to, images, sound files, animations, and scanned materials.</p> <hr/> <p>Creates a Linear Edited Digital Video</p> <ul style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “iMovie” software c. Plan or design (storyboard) your idea d. Create an appropriate Vide of your choosing following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur <hr/> <p>Create a Magazine Cover</p> <ul style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Photoshop” software c. Plan or design (storyboard) your idea d. Create a Magazine Cover incorporating a photo of yourself following the parameters stated ion the Communication Tech website e. Troubleshoot issues as they occur

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	<p>K Operate and maintain systems in order to achieve a given purpose.</p>	<p>A student shall use appropriate technology to access, evaluate, and organize information and to product products by:</p> <ul style="list-style-type: none"> a. Gathering and evaluating information from electronic sources* b. Applying appropriate technology processes to an identified need or problem c. Selecting language, format, and graphics appropriate for purpose and audience by using word processing, graphics, multimedia, spreadsheets, and/or databases d. Maintaining, using, or creating a technological system <p>*These include, but are not limited to, images, sound files, animations, and scanned materials.</p> <hr/> <p>Create a 3D Design</p> <ul style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Google SketchUp” software c. Plan or design (storyboard) your idea d. Create a 3D Activities Room design following the parameters stated on the Communication Tech website e. Troubleshoot issues as they occur <hr/> <p>Create a Magazine Cover</p> <ul style="list-style-type: none"> a. Complete the practice exercises on the Communication Tech website b. Understand the basics of “Photoshop” software c. Plan or design (storyboard) your idea d. Create a Magazine Cover incorporating a photo of yourself following the parameters stated ion the Communication Tech website e. Troubleshoot issues as they occur

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<p>17. Students will develop an understanding of and be able to select and use information and communication technologies.</p>	J	<p>The design of a message is influenced by such factors as intended audience, medium, purpose, and the nature of the message.</p>	<p>Knows the steps involved with designing messages:</p> <ul style="list-style-type: none"> a. Identify your audience b. Know your content (message) c. Decide on the format
	K	<p>The use of symbols, measurements, and drawings promotes a clear communication by providing a common language to express ideas.</p>	<p>Uses design procedures which include:</p> <ul style="list-style-type: none"> a. Idea generation (brainstorming their interests) b. Concept map (logical, sequential order of their website) c. Storyboard (roadmap or drawing on paper of their website)