

Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	Technology Education	Course:	Creative Innovations	Unit Title:	Safety	Grade Level(s):	MS
Assessed Trimester:	Tri 2	Pacing:		Date Created:	2/27/2013	Last Revision Date:	2/27/2013

<b>Course Understandings:</b> <i>Students will understand that:</i> <ul style="list-style-type: none"><li>A technologically literate person understands the significance of technology in everyday life</li><li>The use of technology has impacts and consequences both desirable and undesirable</li><li>Inventions and innovations from various times in history effect technological development in society and history</li><li>Manufacturing requires safe and responsible use of technology</li></ul>
--

DESIRED RESULTS (Stage 1) - WHAT WE WANT STUDENT TO KNOW AND BE ABLE TO DO?

Established Goals	
<b>Standard and Benchmark Mastery</b> <ul style="list-style-type: none"><li><b>Standard STL #19</b> Students will develop an understanding of and be able to select and use manufacturing technologies.<ul style="list-style-type: none"><li><b>19-f</b> Students will understand that manufacturing systems and processes change the form of materials. (F)</li><li><b>19-g</b> Students will understand that manufactured goods may be classified as durable and non-durable (G)</li><li><b>19-h</b> Students will understand that manufacturing will include the designing, developing, and producing products and systems. (H)</li></ul></li><li><b>Standard STL #12</b> Students will develop the abilities to use and maintain technological products and systems.<ul style="list-style-type: none"><li><b>12-H</b> Students will understand that information is provided in manuals or experienced individuals to understand how things work.</li><li><b>12-I</b> Students will understand that tools, materials, and machines are to be used safely.</li><li><b>12-J</b> Students will understand that computers and calculators are used in numerous applications.</li></ul></li></ul>	
Transfer	
<b>Students will be able to independently use their learning to: (product, high order reasoning)</b> <ul style="list-style-type: none"><li><b>19-T, P</b> Create a product using manufacturing processes</li><li><b>19-P, P</b> Produce a product or system through design, developing and manufacturing</li><li><b>12- P</b> Produce a project using hand tools and machines</li></ul>	
Meaning	
<b>Unit Understanding(s):</b> <b>Students will understand that:</b> <ul style="list-style-type: none"><li>Material for projects can vary from project to project or design to design</li><li>There are different processes involved in producing material</li><li>That varying designs require different materials to produce</li></ul>	<b>Essential Question(s):</b> <b>Students will keep considering:</b> <ul style="list-style-type: none"><li>I can select proper materials for my project</li><li>I can choose and explain different processes</li><li>I can build a quality product design</li></ul>
Acquisition	
<b>Knowledge - Students will:</b> <ul style="list-style-type: none"><li><b>19-P</b> Understand that manufacturing systems and processes change the form of materials</li><li><b>19-P</b> Understand that manufactured goods may be classified as durable and non-durable</li></ul>	<b>Skills - Students will:</b> <ul style="list-style-type: none"><li><b>19-P</b> Carry out manufacturing through designing, developing and producing products and systems</li><li><b>19-P</b> Explore goods as durable and non-durable</li></ul>

<ul style="list-style-type: none"><li>● <b>19-P</b> Understand that manufacturing will include design, developing and producing products and systems</li></ul> <b>Reasoning - Students will:</b> <ul style="list-style-type: none"><li>● <b>19-P</b> Organize manufacturing through design, developing and producing products and systems</li><li>● <b>19-P</b> Organize goods as durable and non-durable</li><li>● <b>19-P</b> Evaluate manufacturing systems and processes</li></ul>	

<b>Common Misunderstandings</b> <ul style="list-style-type: none"><li>●</li></ul>	<b>Essential new vocabulary</b> <ul style="list-style-type: none"><li>●</li></ul>
---	---