

CRITERIA	UNSATISFACTORY (Below Performance Standards)	PROFICIENT (Minimal Criteria)	ADVANCED (Demonstrates Exceptional Performance)
Collaboration (10 points)	<b>This portion is determined by your peer evaluation.</b>		
Creativity/ Innovation (10 points)	<ul style="list-style-type: none"> <li>➤ Does not show a distinct style, use ingenuity, or explain the innovation process, or does not show a personal touch when shaping ideas into a product appropriate for the purpose (i.e. uses something you found, not something you designed)</li> <li>➤ Shows no evidence of reflection or revision</li> <li>➤ Carton is not interesting or not functional.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Demonstrates a distinct style, uses ingenuity, explains the innovation process, and shows a personal touch when shaping ideas into a product appropriate for the purpose (i.e. you designed it and are not using someone else's design)</li> <li>➤ Responds to failure by reflecting on the process</li> <li>➤ Carton is interesting yet functional</li> </ul>	<p>In addition to meeting the PROFICIENT criteria ...</p> <ul style="list-style-type: none"> <li>➤ Carton is of professional quality and needs no improvement. There are few to no improvements that could be made to the Carton or the Machine design</li> <li>➤ Critical thought has been shown in the development of the carton and machine design (as is evident through answering questions during presentation)</li> </ul>
	0 --- 2 --- 3 --- 4 --- 5	6 ---- 7 ---- 8 ---- 9	10
Critical Thinking (10 points)	<ul style="list-style-type: none"> <li>➤ Does not address the problem or does not find appropriate information to address it</li> <li>➤ Student does not filter information based on its usefulness, accuracy, or credibility</li> <li>➤ Does not distinguish between fact and opinion or acknowledge bias</li> <li>➤ Does not use fact based evidence</li> </ul>	<ul style="list-style-type: none"> <li>➤ Identifies the information needed to address the challenge</li> <li>➤ Thoroughly assesses the quality of information with respect to usefulness, accuracy, and credibility;</li> <li>➤ Distinguishes fact vs. opinion and recognizes bias</li> <li>➤ Supports claims and conclusions with fact-based evidence</li> </ul>	<p>In addition to meeting the PROFICIENT criteria ...</p> <ul style="list-style-type: none"> <li>➤ Student is able to create new ideas based on changing circumstances, input or environment.</li> <li>➤ The student can differentiate between correlation and cause and effect</li> </ul>
	0 --- 2 --- 3 --- 4 --- 5	6 ---- 7 ---- 8 ---- 9	10

<b>Communication</b> (10 points)	<ul style="list-style-type: none"> <li>➤ Does not ask and answer grade-level appropriate questions to demonstrate conceptual understanding and knowledge</li> <li>➤ Does not present information, arguments, and supporting evidence clearly, concisely, and logically</li> <li>➤ Communicates verbally, non-verbally, and in writing in a way that is inappropriate for the purpose, task, and audience</li> </ul>	<ul style="list-style-type: none"> <li>➤ Accurately and confidently asks and answers questions to demonstrate conceptual understanding and knowledge</li> <li>➤ Presents information, arguments, and supporting evidence clearly, concisely, and logically</li> <li>➤ Communicates verbally, non-verbally, and in writing in a way that is appropriate for the purpose, task, and audience</li> </ul>	<p><b>In addition to meeting the PROFICIENT criteria ...</b></p> <ul style="list-style-type: none"> <li>➤ Communicates insightfully with consistent awareness of audience and purpose.</li> <li>➤ Provides a variety of well-chosen details, quotations or examples to support claims.</li> <li>➤ Student was enthusiastic about his/her message and actively sought to engage the audience in his/her belief</li> <li>➤ Ideas expressed flow in a coherent sequence during the presentation</li> </ul>
	0 --- 2 --- 3 --- 4 --- 5	6 ---- 7 ---- 8 ---- 9	10

**Content Rubric (60 Points)**

<b>Carton Design Project Document 1</b>	<p><b>Includes Surface area for all surfaces of the carton</b></p> <p>(6 points)</p>	<p>Surface area for all surfaces of the carton is correct</p> <p>(2 points)</p>	<p>Design (flat net) includes all needed dimensions (with units of measure) for the net and tabs</p> <p>(4 points)</p>	<p>Includes Volume for all 3D shapes involved in design</p> <p>(6 points)</p>	<p>Volume is correct</p> <p>(2 points)</p>
	<p><b>Includes area for tabs</b></p> <p>(6 points)</p>	<p>Area for tabs is correct</p> <p>(2 points)</p>	<p>Includes total (sides and tabs) surface area</p> <p>(6 points)</p>	<p>Total Surface area is correct</p> <p>(2 points)</p>	<p>All work for finding the surface area and volume is organized and easy to follow.</p> <p>(4 points)</p>
<b>Carton Prototype</b>	<p>Project included a complete prototype of the carton</p> <p>(5 points)</p>	<p>Prototype has sharp corners, is completely folded, glued, and has high quality workmanship in its construction.</p> <p>(5 points)</p>	<p>Prototype includes the design for all printing and information on the sides of the carton.</p> <p>(5 points)</p>	<p>There are no grammar or spelling errors on the carton.</p> <p>(5 point)</p>	<p>Carton takes into account how it will have milk put in and how people will get milk out.</p> <p>(5 points)</p>