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| **CRITERIA** | **ADVANCED (4)****(Demonstrates Exceptional Performance)** | **PROFICIENT (3)****(At Performance Standard)** | **PARTIALLY PROFICIENT (2)****(Minimal Criteria)** | **UNSATISFACTORY (1)****(Below Performance Standards)** |
| **Collaboration**(4 points)(Group Evaluation) | Consistently stays focused on the task and what needs to be done. Very self-directed. | Focuses on the task and what needs to be done most of the time. Other group members can count on this person. | Focuses on the task and what needs to be done some of the time. Other group members must sometimes remind this person to keep on task. | Rarely focuses on the task and what needs to be done. Lets others do the work.  |
| A true team member who contributes a lot of effort, and encourages and supports the efforts of others in the group. | A strong group member who tries hard! | Sometimes a satisfactory group member who does what is required | Sometimes chooses not to participate and does not complete assigned tasks. |
| **Creativity/ Innovation**(4 points)(Carton Design) | In addition to meeting the PROFICIENT criteria …· 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· Carton would be able to hold milk.· Critical thought has been shown in the development of the carton and machine design | Demonstrates a distinct style, uses ingenuity, 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)· Responds to failure by reflecting on the process· Carton is interesting and functional | Does not show a distinct style, does not use ingenuity, or does not show a personal touch when shaping ideas into a product (i.e. uses something you found, not something you designed)* Responds to failure by reflecting on the process
* Carton is interesting and functional.

**OR**Demonstrates a distinct style, etc * Shows no evidence of reflection or revision.
* Carton is not interesting or not functional.
 |  Does not show a distinct style, use ingenuity, 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)· Shows no evidence of reflection or revision· Carton is not interesting or not functional. |
| **Communication**(4 points)(Portfolio/ Presentation) | In addition to meeting the PROFICIENT criteria …· Communicates insightfully with consistent awareness of audience and purpose.· Presents information clearly, concisely, and logically· Student was enthusiastic about his/ her message and actively sought to engage the audience in his/her belief* Ideas expressed flow in a coherent sequence throughout the presentation/portfolio.
 | · Accurately and confidently answers grade-level appropriate questions to demonstrate conceptual understanding and knowledge· Presents information clearly and concisely.· Communicates verbally and in writing in a way that is appropriate for the purpose, task, and audience· Uses well-produced, varied and purposeful media to support individual learning, to enhance the understanding of ideas/reasoning/ evidence, and to engage the audience | · Accurately answers grade-level appropriate questions to demonstrate conceptual understanding· Presents information concisely· Communicates verbally and in writing in a way that is inappropriate for the purpose, task, and audience· Uses ill-produced, standard media or media with no purpose. Media used does not support the ideas and reasoning or does not engage the audience | · Does not answer grade-level appropriate questions to demonstrate conceptual understanding and knowledge· Does not present information clearly, concisely, and logically· Communicates verbally and in writing in a way that is inappropriate for the purpose, task, and audience· Uses ill-produced, standard media or media with no purpose. Media used does not support the ideas and reasoning or does not engage the audience |

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| **Carton Design Project Document 1** | Student included a net of their shape(2 points) | Net includes all tabs for putting it together(1 point) | Design includes all needed dimensions (w/ units of measure) for the net and tabs(1 points) |
| Includes Volume for all 3D shapes involved in design(2 points) | Volume is correct(2 points) | Includes Surface area for all surfaces of the carton(2 points) |
| Surface area for sides of carton is correct(1 point) | Includes area for tabs(2 points) | Area for tabs is correct(1 point) |
| Include total (sides and tabs) surface area(2 points) | Total Surface area is correct(2 points) |   |
| **Carton Prototype** | Project included a complete prototype of the carton(2 points) | Prototype has sharp corners, is completely folded, glued, and has high quality workmanship in its construction.(2 points) | Prototype includes the design for all printing and information on the sides of the carton.(1 point) |
| There are no grammar or spelling errors on the carton.(2 points) | Carton is made from the net.(1 point) |  |
| **Machine Design** | Students include a design for the machine stamp that will cut out the nets.(2 points) | Design includes the dimensions of the stamp rectangle (with units of measure)(2 points) | Design gives the layout of all the nets that can be stamped at once.(2 points) |
| Design includes the amount of waste for one stamp.(2 points) | Waste area for one stamp is correct(1 point) | Design includes total amount of waste for whole roll of paper.(2 points) |
| Waste area for whole roll is correct(1 point) |   |   |