Winter Sled Design Challenge

Categories	1-3 (Bare minimum)	4-7 (Generic)	8-10 (Outstanding)
Creativity	☐ The design lacks originality and exhibits few, if any, creative and/or innovative applications	☐ Some unique, innovative, and creative concepts are incorporated in the overall design	 □ Unique, creative, and innovative approaches are fully incorporated into the design □ Creative winter/holiday theme
Festivity and Artisanship	☐ There is little evidence of consideration of aesthetics and curbs appeal in the design.☐ Minimal festive decoration	☐ There is some evidence that aesthetics and curb appeal have been considered in the design.☐ Some festive decoration	 □ There is clear evidence that aesthetics and curb appeal are fully and effectively integrated into the design. □ Exemplary festive design
Quality/Stability	 Construction is of poor quality and appearance, with little or no attention to neatness. Construction is not self-supported 	 Construction is somewhat neat and has appropriate quality and appearance. Construction is partially self supported 	☐ Construction is of excellent quality and exemplary appearance.☐ Construction is self supported
Paragraph explaining design process, (Materials, Construction, Troubleshooting), as well as the design itself	 □ There is missing information needed to comprehend the design process and construction methodology. □ There is missing information needed to comprehend the design 	 □ Paragraph is satisfactory and includes most components needed to illustrate the process. □ Paragraph includes most components needed to comprehend the design 	 □ Paragraph is well-written and includes all components needed to illustrate the process. □ Paragraph contains a short but comprehensive explanation for understanding the design
Weight Test	☐ The sled is either unable to carry any weight or the weight that is carried is insignificant when compared to that of the sled's. Additionally, weight may not have been provided.	☐ The sled is able to carry a similar amount of weight to its own without sustaining major damages. The weight of the objects used are provided in the submission.	☐ The sled is able to carry 150% of its own weight while sustaining little to no damage. Additionally, the weight of any objects used are provided in the submission.

Winter Sled Design Challenge

Penalties	0	-10
Poses direct threats Poses fire hazard Utilized firearms Incorporates sharp knives	☐ There are no firearms, sharp knives, dangerous weaponry, and threats in/ part of the product.	☐ The final product incorporates a threat, firearm, or poses fire hazards.
Poses an active threat (no mention of proper nouns or confidential information)	☐ The prop does not make alarming threats to any specific person or place.	☐ The prop makes mention of a specific person, places, or things and can be misconstrued as a feasible
Makes discriminatory remarks	☐ The final product does not make offensive remarks toward any group of people	☐ The final product targets a specific groups of people

Design and construct a festive sled design for Winter. Judging is based on creativity, professional appearance, and winter decoration.

Winter Sled Design Challenge

Compete against other NJTSA members this winter season and create a sled design! The winter challenge is to build a sled. The sled must possess dimensions equal to or greater than that of 14.5" long X 7.5" wide X 4.5" tall. Judging will be based on visuals, creativity and durability. To submit, create a folder with a video (.mov) that shows your sled holding a certain amount of weight, make sure to say the weight carried in the recording. To get the most points in the weight test, your sled will need to carry 150% of its own weight. In the drive, you should include a picture of a scale with your sled on it. Additionally, the weight should be clearly visible from the photo. Also include a paragraph explanation of your design process, materials used and any obstacles you may have faced in the format of a pdf. Submit all the items in one folder labeled "First/Last Name - Name of School - Winter challenge". Submit entries to tsachall@tcnj.edu. Good luck!