**Grade Sheet – Build a Better Cast Poster & Video**

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| ***Section*** | ***Points*** | ***Comments*** |
| **Group Information**: title, member names, hyperlink to video | \_\_\_\_/2 |  |
| **Introduction**: problem, relevance, interest, and goals clearly and creatively presented | \_\_\_\_/7 |  |
| **Must-haves and wants:** identified, refined, organized, and prioritized, stated properly  | \_\_\_\_/5 |  |
| **Sketching:** sufficient design alternatives were developed, displayed, and explained  | \_\_\_\_/5 |  |
| **Concept Selection:** displays process of selecting the design based on the “must haves” STEM criteria | \_\_\_\_/5 |  |
| **Product Specifications:** engineering specifications guided by user needs and relevant benchmarking; measurements for each user need clearly stated | \_\_\_\_/7 |  |
| **STEM:** pictures and rationale explaining the science and math that supports the design; utilized appropriate science and/or math (STEM) content knowledge | \_\_\_/15 |  |
| **Prototypes:** showcases clear design, distinct, creative, and well developed; addresses most of the issues identified from all design ideas and most all of the user needs | \_\_\_\_/15 |  |
| **Testing:** test using STEM knowledge, prototypes showcase evolution of design based on testing data and/or consumer discovery; explanations of testing done or that could be done to optimize the product | \_\_\_\_/7 |  |
| **Future Work:** modifications identified that will need to be done to optimize the design and science used to drive that decision | \_\_\_\_/7 |  |
| **Overall Poster/Video:** shows exemplary skills in collecting data from multiple sources and synthesizing their learning; clear understanding of the project and design process, layout is coherent, logical and creatively communicates your work; video is helpful and has a sense of salesmanship; everyone in group is represented | \_\_\_\_/25 |  |
| **TOTAL POINTS (100 max)** |  | This is a group grade. |