

ASBE Competition Grading Matrix

1. **Addressing of the competition problem:** Student appropriately addressed the problem, solving it to the best of their ability, in regards to creativity and technicality.
2. **Development of Design:** Student has shown a development and refinement of individual design throughout the process of the competition.
3. **Application of STEM principles and practices:** The student did research on needed elements such as materials, ergonomics, and shows this in their final project through their drawings and/ or write up.
4. **Required Drawings and Views:** Student has shown required drawings to fully describe their design, and any the ASBE minimally requires.
5. **Quality of Drawings:** Final drawings, (CAD/ Hand Drawn/ Computer Renderings) are high quality and have the principles of proper engineering or presentation drawings. Scale, lettering, lineweights, linetypes, rendering, etc.
6. **Written Description:** Student's written description of their design process and elements of their design are well written. The student had other's proof-read their writing.
7. **Adherence to Presentation Requirements:** Student submitted drawing correctly meeting the requirements set forth by ASBE.
8. **Reflection on the Design Project:** Student performed self-checks on work through self-check-sets. (Self- red-marks, and peer red-marks)
9. **Time Management:** Student used class time to develop project to the highest quality. Student limited distractions, was self-directed and met milestone deadlines.
10. **Technical Problem Solving:** Student actively looked for and suggests solutions to problems while working on project. (CAD questions, printing, modeling, etc.)
11. **Model or Prototype:** Student created model that appropriately reflects their design intent.