

The Purdue College of Technology – Anderson/Muncie Iron Egg Launch Design Competition addresses many state educational standards for Engineering and Technology. Some are listed below:

- HS.5 Work cooperatively and productively in groups to design and use technology to solve technological problems.
- HS.5.D Contribute during group problem solving assignments
 - HS.5.E Complete design tasks using a standard process
 - HS.5.F Participate in small group design and production activities
 - HS.5.G Evaluate the efficiency of a team project
- HS.7 Develop and refine alternate solutions that address technological needs and opportunities
- HS.7.E Apply different problem solving processes
 - HS.7.F Participate in brainstorming and develop activities
 - HS.7.G Model potential designs in an efficient manner
 - HS.7.H Create unique solutions to stated issues
- HS.8 Evaluate and select appropriate solutions that address technological needs and opportunities
- HS.8.C Apply a problem solving or formal design process for a technical project
 - HS.8.D Consider human and environmental factors when making decisions
 - HS.8.E Evaluate technologies based on formal research and experimentation
 - HS.8.F Make informed technological decisions based on accepted practices, research, management approval, or similar criteria.
- HS.9 Apply engineering principles when planning, developing, implementing, and analyzing technological solutions
- HS.9.D Explain both the theory and application of basic engineering principles in today's global society
 - HS.9.E Design and document products, structures, and systems using solid modeling software
 - HS.9.F Use automated systems to produce sample component parts or products
- HS.10 Specify solutions to stated needs and opportunities using appropriate technical means
- HS.10.D Communicate design and production information with appropriate media
 - HS.10.E Use standard forms and documents to describe a new design or plan
 - HS.10.F Model a solution in various ways
 - HS.10.G Re-evaluate a previously approved solution
- HS.11 Select the appropriate resources needed to produce and operate, communication, construction, manufacturing, transportation, and other technological systems and artifacts
- HS.11.D Operate tools, equipment, and systems safely
 - HS.11.E Describe the technological processes / techniques required for a proposed solution
 - HS.11.F Troubleshoot and maintain systems
- HS.12 Select the appropriate processes needed to produce or operate products, structures, and systems.
- HS.12.C Research and develop fresh solutions to problems or issues
 - HS.12.D Troubleshoot a technological problem
 - HS.12.E Apply a multidisciplinary approach when solving problems
- HS.13 Efficiently use appropriate processes to produce communication, construction, manufacturing, transportation, and related devices and systems
- HS.13.C Create a prototype or model of a structure to evaluate a design
 - HS.13.D Prepare media using modern technological devices and systems
 - HS.13.E Use a computer to model a complex product or system
- HS.14 Appropriately operate technological devices and systems.
- HS.14.C Use tools, equipment and systems properly
 - HS.14.D Follow safe practices around technological devices and systems
 - HS.14.E Evaluate the appropriate means of completing technological tasks



