

The 2018 M.A.D.E. (Morganton Arts Design and Engineering) Competition brought together seven Burke County Middle and High Schools to go head to head in the Eco Chair Challenge. The Historic Morganton Festival, Inc. along with Burke County Public Schools is proud to announce the 2019 M.A.D.E. Challenge. During Friday, September 6th and Saturday, September 7th; area Middle and High School students will compete in the “Junkyard Design Challenge”, an on site engineering and design challenge during the Morganton Festival in downtown Morganton.

The competition has the opportunity to highlight this region’s brilliant minds with a competition series that features the abilities of our young students. MADE engages students in critical thinking, design, engineering and innovation in a way that works toward meeting the needs of our area industry.

The 2019 M.A.D.E. Competition invites Middle and High Schools from Burke and surrounding counties to compete in the M.A.D.E. “Junkyard Design Challenge”. You must reserve your spot by March 1, 2019. The competition is first come, first serve until all spots are filled. There are a total of 12 school team spots available with 5 students allowed per school team.

Contestant Prizes for Supporting School Program (checks made to school)

High School

- 1st Place - \$750
- 2nd Place - \$500
- 3rd Place - \$250

Middle School

- 1st Place - \$750
- 2nd Place - \$500
- 3rd Place - \$250

M.A.D.E. Challenge

This year's MADE competition will be an on site build. This artifact will be each team's best answer to an engineering challenge presented to the teams a week before the competition takes place. Each team will be judged with an encompassing rubric that highlights all of the steps and phases of a successful design process. As such, teams will need to make sure they have a diversified work group with an array of talents.

The competition will be divided into two sections. One section for middle school solutions and one for high school solutions. The builds for both will be similar with the high school teams showing more in depth and varied skill sets.

It is recommended that all teams have members that are comfortable with the following skill sets.

- general problem solving skills
- skill in using basic tools including but not limited to: band saws, drill presses, hand drills, soldering irons, and other assorted hand tools
- 3D cad skills in a program of the team's choosing (Inventor, Solid Works, Sketchup etc)
- Knowledge of 3D printing
- familiarity with common materials used in building and construction included but not limited to plastics, foam board, sheet metal, and wood
- technical drawing and sketching skills
- presentation software of the student's choice
- public speaking skills
- be familiar with the mechanical parts of a vex system(middle)

Additional high school skill set

- robotic/computer control using Vex Cortex and components (provided by MADE) or Arduino (team supplied)

All groups are required to bring any computers and software they need in order to do the above tasks. 3D printers will be available on site for teams to use.

Each team will create the project on site using standard design principles and process using both individual team areas and a common "workshop" of larger equipment. Each team will chronicle their work in a digital portfolio with a design brief, appropriate sketches and technical drawings. Groups will present their portfolio to a panel of judges as part of their overall rubric.

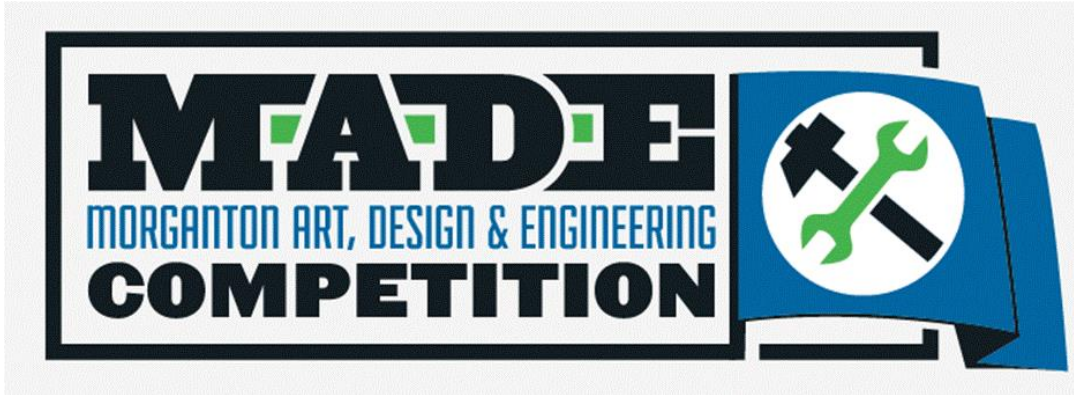
Team members:

Each team will consist of a maximum of 5 members and a teacher/supervisor who will help facilitate safety and time schedules.

Each team member must be present for safety instruction at the beginning of the competition. The 2019 M.A.D.E. Design Brief, Material Listings and Constraints will be delivered to teams participating in the competition by Friday, August 30th.

Competition Dates – Friday, September 6th and Saturday, September 7th

Artifact due – 4:00pm on Saturday, September 7th



Participant Entry Form

M.A.D.E. Team Name: _____

School: _____

Contact Name (lead teacher + t-shirt size): _____

Email: _____

Phone: (Office) _____ (Cell) _____

Mailing Address: _____

Street or Box #

City

State

Zip

Team Members + t-shirt sizes (limited to 5 per school): _____

For general competition questions (competition location, logistics, entry edits, etc.), please contact Abby Nelson at anelson@ci.morganton.nc.us or call 828-438-5280. For technical questions (rules & regulations, standards, etc.), please contact Paul Gantt at pgantt@burke.k12.nc.us

Please read all of the guidelines and sign below: I acknowledge that I have read and will abide by the 2019 M.A.D.E. Competition guidelines. I understand that if I violate any rule, the competition officials may terminate my participation. I release the Historic Morganton Festival from any responsibility for theft, damage or loss.

Signature

Date

WAIVER AND RELEASE FOR M.A.D.E. COMPETITION

As the parent or guardian of _____, who is under the age of 18 years, I sign this Waiver and Release for the City of Morganton on his or her behalf, and agree and acknowledge as follows:

1. _____ is a student at _____ [Middle][High] School, and wishes to participate in the 2019 Burke County schools M.A.D.E. competition on September 6-7, 2019, which will involve teams of students designing, creating, constructing and displaying an object or objects in a judged competition.
2. I understand that the M.A.D.E. event is to be held in downtown Morganton during and as a part of the Historic Morganton Festival (which is an event of Historic Morganton Festival, Inc.), and will be at least partially conducted on City property or on public streets and sidewalks
3. Both my child and I understand and agree that participants in the competition may, and will be expected to, use various hand tools and power tools as part of the creation and construction process, under supervision of teachers, staff or other adults.
4. Both my child and I understand and accept that use of the various tools which may be needed or required in the competition involves some risk of bodily injury.
5. In order to participate in the M.A.D.E. competition, my child and I have both been required to read, accept and sign the appropriate rules and regulations of the Burke County Public Schools for such activity, including a Student Safety Contract governing my child's conduct.
6. I understand that the City of Morganton and Historic Morganton Festival, Inc. require all participants in the M.A.D.E. competition, or if minors then their responsible adults, to sign a Waiver of liability and Release of claims in the form of this document.
7. As responsible parent of _____, by signing this document I agree that neither the City of Morganton nor Historic Morganton Festival, Inc. shall be liable or responsible for any injury or damage to my child resulting from or caused by the use of any tools or equipment, or any other aspect of his or her participation in, the M.A.D.E. competition, unless such injury or damage is caused by clear negligence on the part of the City or the Festival.
8. To the full extent allowed by North Carolina law, I further agree to waive, and do hereby waive, any claim against the City of Morganton or Historic Morganton Festival, Inc., for damages for bodily injury to my child which may arise or result from the participation of my child in the M.A.D.E. competition, including any claims for medical expenses.
9. To the full extent allowed by North Carolina law, I further hereby release the City of Morganton and Historic Morganton Festival, Inc., and their respective officers, employees, agents and departments, from any and all liability for personal injury to my child arising out of or resulting from his or her participation in the M.A.D.E. competition on September 6-7, 2019 in downtown Morganton.

_____ This the ___ day of _____, 2019.

Signature

Rules & Regulations

To Enter, each team must return their Participant Entry Form completely filled along with the student waivers completed and signed for each participating student.

Setup Hours: Friday, Sept. 6th 8am-11:30am

Event Hours: Friday 12 (noon) – 11pm and Saturday 9am – 10pm

MADE Hours: Friday 12 (noon) – 8pm and Saturday 9am – 7pm

Judging: Saturday, September 7th at 4:00pm

Note: Winning teams are invited to City Stage for recognition Saturday evening at 8pm

Booth Space

Located at 111 North Green Street – grass lot diagonally across from CVS. A festival map including parking & load-in information will be emailed to you prior to the event. Each team will be allowed a determined booth space along with two tables and two chairs. You are responsible for drop cords, signage and/or any other equipment you may need.

Move In/Break Down

Friday, September 6th

Vendor admittance into the festival area begins at 8:00am and ends at 11:30am. No vehicles are allowed in after 11:30am. Vendors must open by 12:00pm and close no earlier than 8:00pm (Children's Play Land and City Stage will be open until 11:00pm Friday night). You will not need to breakdown area between Friday and Saturday. Burke County Public Schools will have one van on site for valuables to be locked in overnight.

Saturday, September 7th

Vendor admittance into the festival area will begin at 6:30am and end at 8:30am. No vehicles allowed in after 8:30am. Vendors must open by 9:00am and close no earlier than 7:00pm.

- At closing, no vehicles will be allowed into the festival area until 10:00pm due to pedestrians.
- Vendors may walk their product out prior to 10:00pm

Judging Saturday, September 7th

4:00pm.

- Winners are asked to be available for a presentation on City Stage at 8:00pm

Rain Date Policy

The festival takes place Rain or Shine!

2020 MADE Competition will be announced on Saturday, September 7th!