



Milford High School & Applied Technology Center presents:

STEAM Night

Explore the wonderful world of STEAM careers!

S-Science **T**-Technology **E**-Engineering **A**-Art **M**-Mathematics

what: Milford High School students, teachers and cooperating vendors will be hosting two sessions in STEAM fields.

when: Thursday, April 12th; 5:30pm-8:00pm
There will be two hands-on sessions in which students can participate.

where: Milford High School & Applied Technology Center

who: All 3rd-8th graders

Spaces will be assigned on a first come, first served basis.

Parents, please plan to bring your 3rd-8th graders to Milford High School between 5:30 and 6:00pm, **All parents must stay for a brief information session until 6:20pm**, and return to pick up the children by 7:45pm. Additionally, PARENTS- you are welcome and encouraged to sign up and participate in your own STEAM sessions, tour our Student Gallery, take a tour of our Career & Technical Center and/or browse our vendor expo! There will be childcare available for children in kindergarten through second grade.

How to RSVP:

Please RSVP no later than Tuesday, April 10th,
to the following link:

<https://goo.gl/forms/rgov0sq4EwZIjGpi1>

Or by calling Meg Peterson, 673-1811 ext. 2420

No late registrations will be accepted.

PARENTS OF MULTIPLE CHILDREN IN GRADES 3-8- please fill out an RSVP form for EACH child. You will have the option upon submitting the form to submit another response for an additional child.

Event Information

Students will be participating in one session pairing during the event, and will be grouped by grade level. There is a maximum of 20 students allowed per session, for each pairing. ** Due to the possibility of changing circumstances closer to the event date, which are out of our control, offerings may be changed without notice.**

Pairing Name	Description Activity 1	Description Activity 2
A	Behind the Scenes: Students will put on an improv performance and have a back stage tour. Students will learn what science is behind the curtain of theatre	Breakout Team Work: Students will be given a challenge to solve. This problem solving and teamwork activity will have you scratching your heads.
B	Musical Petting Zoo: A sampling of musical instruments and art appreciation found in music.	3D Modeling & Problem Solving: Learn how to work in engineering teams, problem solve in an engineering world. You will also experience injection molding.
C	The Science of Dairy: This hands on lab explores how agriculture concepts are used in today's technological society. Students will make their own products in the lab.	Electronics: How can you setup camera's that cost < \$50 and see and listen to them from thousands of miles away with no additional costs? What do career paths in electronics look like?
D	Build your Own Brush: Make your own paint brush, see what goes into beautiful painting by making your own brush.	Aviation Lab, Fly like a Pilot: Try on flight equipment, go through simulation and experience what flying looks like from the cockpit.
E	Problem Solving: Learn how to apply problem solving to your household tasks, find the fun way to do chores. This interactive lab is fully hands on	How do we see color?: Students will learn how the eye works to see color. Using a variety of demonstrations and activities
F	Slime & Art: Make Slime, see how science and math come to life.	Rocket Science: It Really is Rocket Science! Participants will learn about ratios and chemical equations by studying the reaction between hydrogen and oxygen.
G	Robotics: Learn how to use classroom robotics. VEX IQ will be used to design and program robots	Movie Making: Find out how to use the latest television and video equipment. Make a movie with edits
H	Binary Bracelets: Learn the basics of the Binary Number System by making a bracelet with your name.	DNA & Purification: Use test and lab equipment to test DNA, see what dna structure looks like through a microscope.
I	BreakoutEDU: Solve puzzles to unlock and break out of the box. Work in teams to problem solve	S.T.E.A.M in the Military: Learn how the Military uses STEAM each day by trying their labs
J	What's CNC: Students will create their own key chain and run the BRAND NEW HAAS Verticle Milling Machine.	Drawing from Math: Students will explore geometry with computers. This fun artistic way to draw applies all the math theory with shapes.
K	Lego Labs: Build, Design, Create- Air Powered Cars and Hydrofoils	STEAM History: This interactive lab goes through the history of people in STEAM.