

# **TECH EXPO**

**THURSDAY, MAY 7, 6 - 8 PM, HELENA MIDDLE SCHOOL**

**DEMONSTRATIONS, PRESENTATIONS, EXPLORATIONS**

Each technology host will hold three 25-minute presentations. If you attend 3 sessions by different presenters and get your Tech Passport stamped, you can enter a drawing for one of our fabulous door prizes! A planning sheet is included below so you can plan which events you would like to attend. Each presentation is capped at 20 people so plan some alternate options in case your choice is filled. Each session is first come first served.

## **MAPS Media Institute – (rm 111)**

We're so excited to showcase some of the creative work happening at MAPS! Our room will feature interactive stations where students can try their hand at digital music and beat creation and digital illustration and animation on our iPads using the same tools our professionals use. We will also be screening a selection of our Emmy Award winning short films from the MAPS Media Lab.

## **Main Sequence Robotics - FIRST Tech Challenge (rm 105)**

Calling all builders, programmers, and roboticists!

Dive into the exciting world of competitive robotics with FIRST Tech Challenge! Join us to discover the thrill of building, coding, and competing with your own robot. Experience teamwork, innovation, and problem-solving like never before.

## **Main Sequence Robotics - FIRST LEGO League (rm 107)**

Calling all LEGO builders, programmers, and roboticists!

Dive into the exciting world of competitive robotics with FIRST LEGO League! Join us to discover the thrill of building, coding, and competing with your own LEGO robot. Experience teamwork, innovation, and problem-solving like never before.

## **DoD STARBASE**

### **STARBASE Advanced After-School (rm 109)**

Calling all scientists, roboticists, and tech enthusiasts! Dive into STEAM with DoD STARBASE Advanced, our free after-school program, where we will discover the wonder of science, explore cutting-edge technology, and unleash your curiosity through experiments.

## **Ham Radio – the New / Old Hobby Everyone is Talking About! (rm 104)**

- Discover the fun – No cell phone needed!
- Make friends around the world
- Join Contests like Parks on the Air or Summits on the Air
- Monitor races like the Governor's Cup
- Serve with other agencies in emergencies
- Create your own DIY antenna-building or other projects.

### **Lewis and Clark Library (rm 108)**

Lewis and Clark Library brings you countless things: access to free audiobooks, dvd's, streaming documentaries, videogames, and classes and programs of all sorts for all ages. But today, Lewis and Clark Library brings you (drumroll please)... TINY ROBOTS! These little guys are waiting for you to draw them a road, complete with coding in spins, flashing lights, and even some fancy dance moves. Come by and say hi, to the human library staff or the wee robots.

### **HHS/CHS Robotics programs (rm 106)**

Come see a couple of the projects the Helena High Robotics class has worked on this year: draw with a joy-stick-operated robot and shoot some hoops with a bucky ball basketball robot. Learn how to dive into programming and explore some of the apps you could create in Computer Science as well

### **Flying Tigers Model Aeronautics Club – (Gym)**

**Build and fly model airplanes with the Flying Tigers Aeronautics Club.**

- Learn how to become involved in aeronautics and aviation activities in the Helena area.
- Build, modify, and fly a glider.

### **Young Eagles Aviation Program – (Library)**

Learn about the Young Eagles program that provides students with an introduction to the world of aviation and a free airplane ride.

### **HMS Library – (HMS Library)**

**Techsploration:**

- Come and see the Super Cool projects made by HMS students with the help of HMS Robotics Club volunteer John Miller. Vex Claw Robot and Rotary phone Arduino build.
- Come and see what technology tools are available for exploration in the HMS Library. 3D Printer, Raspberry Pi, Arduino Projects, Robotics Club, Tinkercad, Snap circuits, Circuit Playground Express, etc.

## Planning sheet

Name:

|                                      |  |  |  |
|--------------------------------------|--|--|--|
| <b>Session 1</b><br><b>6:05-6:30</b> |  |  |  |
| <b>Session 2</b><br><b>6:35-7:00</b> |  |  |  |
| <b>Session 3</b><br><b>7:05-7:30</b> |  |  |  |

**7:30-7:45 Drop off your Door prize entries at the HMS Library.**

**7:30- 7:45 Open House: Visit any presenters you missed to find out what technology opportunities they have to offer.**

**At 7:50 drawing for the door prizes in the gym.**

