

2019 Summer STEM Institute

at Loveland Middle School

ROBOTICS

The Loveland Summer STEM Institute provides an opportunity for students to pursue their interest in robotics. In an inquiry based environment, students will build and program a VEX Clawbot; students will use their Clawbot to execute a series of challenges.

Location: Loveland Middle School

Cost: \$150.00 per session

Dates:

Introduction To Robotics (Monday, June 10 to Friday, June 14; 8:00am to 12:00pm)

This session is an introduction to the programming and construction of a VEX V5 robot. Throughout this week-long session, students will construct their robot from scratch and program the robots' cortex using VEX C++ programming language. The challenges presented will require problem solving and critical thinking as each task will require specific functions of the robot. The session is open to students entering 6th, 7th, or 8th grades (that did not take Robotics during the 2018-19 school year)

Competition Camp (Monday, June 17 to Friday, June 21; 8:00am to 12:00pm)

This session is geared toward students who have the foundations of VEX programming and construction. Over the course of the week, students will design and program a VEX robot to effectively perform in the VEX Competition Course. This 1 week session is an opportunity for students to implement their knowledge of robotics in problem based exploration. Critical thinking, problem solving, and troubleshooting will be an emphasis of this session. This session is open to students entering 8th or 9th grades.

Students for this session must meet one of the requirements below:

1. participated in the Introduction to Robotics session
2. participated in the 2018 Summer STEM Institute
3. taken Robotics at LMS

Students interested in participating on the middle school or high school Robotics Teams are encouraged to attend this session.

*Students may participate in both sessions

Registration Link:

<https://forms.gle/TLJRHaMneXwqmn9n6>