

**6-12 VEX Robotics - \$160 (includes \$40 equipment fee)**

**Instructor: Saffer, D**

**Students will work together in teams with their own robot kits and can progress at their own pace through a curriculum with building, programming, and competition. Student progress is always tracked so returning students from previous semesters can resume the curriculum where they left off. This class is designed to run over multiple semesters so students can continue with new material. Team progress will be posted online.**



**This class gives students the opportunity to learn programming skills and apply those skills to robot hardware. Students will learn programming skills using a VEX IQ curriculum designed to teach core computer programming logic and reasoning skills using a robotics engineering context. VEX IQ is a snap-together robotics platform designed to offer young students a rich and**



**exciting introduction to the areas of Science, Technology, Engineering and Math (STEM). The system encourages teamwork, problem solving, and leadership.**

**After completing the VEX IQ curriculum students will move into the VEX EDR curriculum that involves larger robot kits and larger teams. Where VEX IQ is a mostly plastic platform, VEX EDR is steel and aluminum.**



**VEX IQ serves as a great springboard into the VEX EDR platform as students grow older. The build fundamentals and programming styles apply to both programs, so lessons introduced while participating in VEX IQ continue to be relevant in VEX EDR. Students will start off learning about engineering and engineering problem solving. They will be given introductions to VEX EDR robots and CAD software. Students will be presented with an engineering challenge; they will need to build a robot to play a sport-like game. The rest of the curriculum walks students through the design of their robot while presenting them with relevant STEM and Robotics principles. At the end of the course, students compete head-to-head with their robots.**

**This class provides valuable experience for students wishing to move into VEX Robotics competitions.**