**Introduction to Robotics Parent Guide**

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| This course exposes students to some of the major concepts and technologies that they will encounter as they investigate engineering, robotic, and high-tech careers. Students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenging situations. VEX EDR and multiple coding styles and languages will be utilized in this course. |
| 1st 6 Weeks:Introduction to RoboticsRotation and TorqueCenter of Gravity & Lifting Mechanisms | 4th 6 Weeks:Physics Concepts DemonstrationDesign SpecificationEngineering Notebooks & CAD |
| 2nd 6 Weeks:Engineering Notebooks & SchematicsFunctional SpecificationsIntro to ProgrammingCircuit Parts, Kit Builds and Basic Soldering | 5th 6 Weeks:Engineering Notebooks & CADCircuits, Soldering, & VEX buildMaterial AnalysisSensors & Autonomy |
| 3rd 6 Weeks:Sensors - VisionSpeed, Velocity, Acceleration & Vectors | 6th 6 Weeks:Drivetrains & GearboxesRobot ChallengesEngineering Notebook and Inventories |

**Questions?** Please contact your course science teacher.