Science Curriculum Robotics
Cross County School

| Science Skill | Concept | District Objective | Curricular Indicator | Performance Level | Pacing | Instructional Materials/ Class Activities | Intervention | Assessment Local | Assessment NeSA |
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| | | Robotics Engineering Curriculum Year 1 | | | | | | | |
| | | In REC 1, students build and program the BaseBot, then use it to conduct experiments demonstrating physics and mechanical properties, adding sensors and mechanisms. REC 1 concludes with a capstone project featuring competitive instructional strategies. | | | | | | | |
| | | REC Unit 1: Introdution to Robotics | | | | | | | |
| | | REC Unit 2: introduction to Vex Programming | | | | | | | |
| | | REC Unit 3: Physics and Robotics | | | | | | | |
| | | REC Unit 4: Sensors | | | | | | | |
| | | REC Unit 5: Arms and End Effectors | | | | | | | |
| | | REC Unit 6: Project | | | | | | | |
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| | | Robotics Engineering Curriculum Year 2 | | | | | | | |
| | | In REC 2, students continue with deeper engineering topics, building more advanced robots including those shown below. | | | | | | | |
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| | | REC Unit 7: Introduction to Electronics | | | | | | | |
| | | REC Unit 8: Mechanical Properties | | | | | | | |
| | | REC Unit 9: Advanced C Programming | | | | | | | |
| | | REC Unit 10: Industrial Robotic Arms | | | | | | | |
| | | REC Unit 11: Advanced Mechanics | | | | | | | |
| | | REC Unit 12: Project | | | | | | | |