

## Expectations and Outcomes

Grade Level/Course: 10-12

Content Area: Tech Ed

Unit Title	Guarantees
Unit 1	<ul style="list-style-type: none"> <li>• Sources of Electricity</li> <li>• Ohm's Law</li> <li>• Prefixes</li> <li>• Electrical Circuit Materials</li> <li>• Electrical Safety</li> </ul>
Unit 2	<ul style="list-style-type: none"> <li>• Resistors, Switches, &amp; other Components</li> <li>• Series Circuits</li> <li>• Parallel Circuits</li> </ul>
Unit 3	<ul style="list-style-type: none"> <li>• Using Breadboards</li> <li>• Using Multi Meters</li> </ul>
Unit 4	<ul style="list-style-type: none"> <li>• Magnetism</li> <li>• Generators</li> </ul>
Unit 5	<ul style="list-style-type: none"> <li>• DC Motors</li> </ul>
Unit 6	<ul style="list-style-type: none"> <li>• Residential Wiring</li> <li>• Grounding and safety</li> <li>• Wiring systems</li> <li>• Installing boxes and conduits</li> <li>• Planning &amp; wiring devices</li> </ul>
Unit 7	<ul style="list-style-type: none"> <li>• Soldering</li> </ul>
Unit 8	<ul style="list-style-type: none"> <li>• Intro to Robotics</li> <li>• Laws of Robotics</li> <li>• Programming</li> </ul>
Unit 9	<ul style="list-style-type: none"> <li>• Robotics and Programmed Paths</li> </ul>
Unit 10	<ul style="list-style-type: none"> <li>• Robotics and Autonomous Navigation</li> </ul>