Elizabethtown Area School District
Scope & Sequence - Quick Reference

Department: Technology & Engineering Education

Course: Electronics & Robotics / Honors

Grade Level(s): 11-12

Unit Title	General Topic(s)	Pacing
1. First Lego League	- Design & Problem-Solving - Inputs & Outputs - Sensors & Thresholds - Pseudo Code & Programming	4 Weeks
2. What Is A Microcontroller?	- Software & Hardware - Programming & Coding - Light-Emitting Diodes (LED) - Ditigatl Inputs: Push Buttons & Controls - Digital Displays - Frequency & Sound	3 Weeks
3. Robotics With The Boe-Bot	- Servo-Motors - Navigation - Assembly & Testing - Values, Operations, & Counting - Timers - Subroutines	3 Weeks
4. Electronics: Audio Amplifier	- Schematic Diagrams - Electrical Circuits & Components - Wire Diagrams - Breadboarding	5 Weeks

	● Soldering & Desoldering ● Testing & Troubleshooting ● Amplifying Sound ● Bluetooth & Wireless Communication ● Voltage Regulator	
5. CoDrone Pro	● Uploading Code ● Communication & Pairing ● Flight Events & Movements ● Variables & Conditionals ● IR Sensors, LEDs, & Buzzers ● Flags & Timers ● Functions & Loops ● Arrays	3 Weeks