

JCPS Electricity Yearly Standards

Overarching Standards

9-12.ET. LO.01

Recall and follow safety rules in the basic operations of electricity/electronics.

Units	Priority Standards	Supporting Standards
Unit 1: Basic Electrical Knowledge	9-12.ET.LO.02 Identify and describe careers related to electricity/electronics 9-12.ET.LO.03 Describe where electricity comes from and how it is produced 9-12.ET.LO.04 Identify and describe basic tools used in electricity/electronics 9-12.ET.LO.05 Demonstrate knowledge of atoms and electrons and their uses in electricity/electronics	9-12.ET.LO.06 Discuss why planning for your future is important 9-12.ET.LO.07 Know and use basic electricity terms (ie: atom, electrons, protons, ect) 9-12.ET.LO.08 Explain the process of generating electricity in various types of electrical power plants
Unit 2: Resistors	9-12.ET.LO.09 Build circuits using resistors	9-12.ET.LO.10 Explain the resistor color code and show how it is used 9-12.ET.LO.11 Demonstrate how to take measurements with the multimeter 9-12.ET.LO.12 Use electrical tools and demonstrate correct care of the tools

		9-12.ET.LO.13 Demonstrate and identify parallel and series circuits along with simple math computations of series/parallel circuits 9-12.ET.LO.14 Utilize and identify the symbols used in electricity/electronics
Unit 3:	9-12.ET.LO.15 Build circuits using solid state components	9-12.ET.LO.11 Demonstrate how to take measurements with the multimeter
Solid State Components		9-12.ET.LO.12 Use electrical tools and demonstrate correct care of the tools
		9-12.ET.LO.13 Demonstrate and identify parallel and series circuits along with simple math computations of series/parallel circuits
		9-12.ET.LO.14 Utilize and identify the symbols used in electricity/electronics
		9-12.ET.LO.16 Identify and explain solid state components
Unit 4:	9-12.ET.LO.17 Build circuits using capacitors	9-12.ET.LO.11 Demonstrate how to take measurements with the multimeter
Capacitors		9-12.ET.LO.12 Use electrical tools and demonstrate correct care of the tools
		9-12.ET.LO.13 Demonstrate and identify parallel and series circuits along with simple math computations of series/parallel circuits
		9-12.ET.LO.14 Utilize and identify the symbols used in electricity/electronics

		9-12.ET.LO.18 Identify and explain capacitors
Unit 5:	9-12.ET.LO.19 Build circuits and program them to do an array of	9-12.ET.LO.12 Use electrical tools and demonstrate correct care of the
Programming	things	tools
		9-12.ET.LO.14 Utilize and identify the symbols used in electricity/electronics
Unit 6:	9-12.ET.LO.20 Build a variety of home electrical circuits	9-12.ET.LO.11 Demonstrate how to take measurements with the multimeter
Residential Wiring		9-12.ET.LO.12 Use electrical tools and demonstrate correct care of the tools
		9-12.ET.LO.13 Demonstrate and identify parallel and series circuits along with simple math computations of series/parallel circuits.
		9-12.ET.LO.14 Utilize and identify the symbols used in electricity/electronics
		9-12.ET.LO.21 Solve common issues in residential wiring