Jefferson City Public Schools–High School Curriculum

SUBJECT: Grade 10-12

COURSE: Electricity/Electronics Technology

STRAND:

Objectives	Assessment/Evaluation	Instructional Activities
(A) Examine what is necessary for a career in electricity/electronics by using the *Occupational Outlook Handbook* to determine: • job descriptions • job demand • pay • training **Performance: 3.5** **Knowledge: (CA) 1,6** **CACLE: R.1.I (English I-IV); R.3.Cf,g (English I)** **CAGLE: IL.1.B** **NETS: (9-12) 10** **DOK: 1**	• Assignment sheets – assessed using an answer key • Teacher observation	• *Occupational Outlook Handbook* • Videos • Textbook
(B) Regarding electricity/electronics technology, formulate problem solving and creative abilities involving: • materials • equipment • processes • products **Performance: 1.6** **Knowledge: (MA) 5 (H/PE) 7 (SC) 1,8** **PEGLE: PALW.2.A** **SCCLE: SC8.1.B (Physical Science)** **NETS: N/A** **DOK: 2**	• Assignment sheets – assessed using an answer key • Teacher observation • Safety poster – assessed using a scoring guide	• Textbook • PowerPoint • IE: LED activities

Objectives	Assessment/Evaluation	Instructional Activities
(C) Explain the resistor color code and show how it is used **Performance: 1.8, 2.1** **Knowledge: (MA) 1 (SC) 1,7** **CACLE: R.3.D (English I-IV)** **SCCLE: SC7.1.C (Physical Science)** **NETS: N/A** **DOK: 2**	• Assignment sheets – assessed using an answer key • Color code poster – assessed using a scoring guide • Test	• Textbook • Videos • PowerPoint
(D) Show how to take various measurements using a multi-meter **Performance: 3.5** **Knowledge: (MA) 1,5 (SC) 7** **CACLE: R.3.D (English I-IV)** **SCCLE: SC7.1.B (Physical Science)** **NETS: (9-12) 8** **DOK: 2**	• Assignment sheets – assessed using an answer key • Exam	• Textbook • Teacher demonstration • IE: Use meter to make measurement
(E) Construct various simple circuits using basic electronic components **Performance: 1.10, 3.5** **Knowledge: (MA) 4-6 (SC) 7** **CACLE: R.3.D (English I-IV)** **SCCLE: SC7.1.B (Physical Science)** **NETS: N/A** **DOK: 2**	• Assignments – assessed using a checklist • Projects – assessed using a checklist	• Videos • Teacher demonstrations • Lab activities

(F) Wire various simple home wiring circuits using typical home wiring components
 	
Performance: 1.6, 1.10
Knowledge: (H/PE) 6 (SC) 1,7
CACLE: R.3.D (English I-IV)
SCCLE: SC7.1.B (Physical Science)
NETS: (9-12) 10
DOK: 1
	• Assignments – assessed using an answer key
	• Projects – assessed using a scoring guide
		• Assignments
		• Teacher demonstrations
		• Lab activities
		• IE: wire:
		  • lights
		  • switches
		  • outlets

Objectives	Assessment/Evaluation	Instructional Activities
(G) Demonstrate and employ correct care and use of basic electrical tools **Performance: 1.6, 1.10** **Knowledge: (SC) 2** **CACLE: R.3.D (English I-IV)** **PEGLE: PALW.3.A (Gr. 7)** **NETS: N/A** **DOK: 1**	• Assignment sheets – assessed using an answer key • Project evaluation • Test	• Lab demonstrations • Videos • PowerPoint
(H) Identify and explain basic solid state components **Performance: 1.6, 2.7** **Knowledge: (SC) 1,6** **CACLE: W.1.A (English I-IV)** **CAGLE: LS.2.A** **NETS: (9-12) 8** **DOK: 2**	• Assignment sheets – assessed using a scoring guide • Project evaluation • Test	• PowerPoint • Videos • IE: construct audio generator